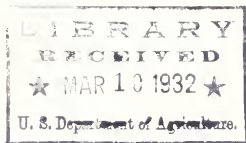


## **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



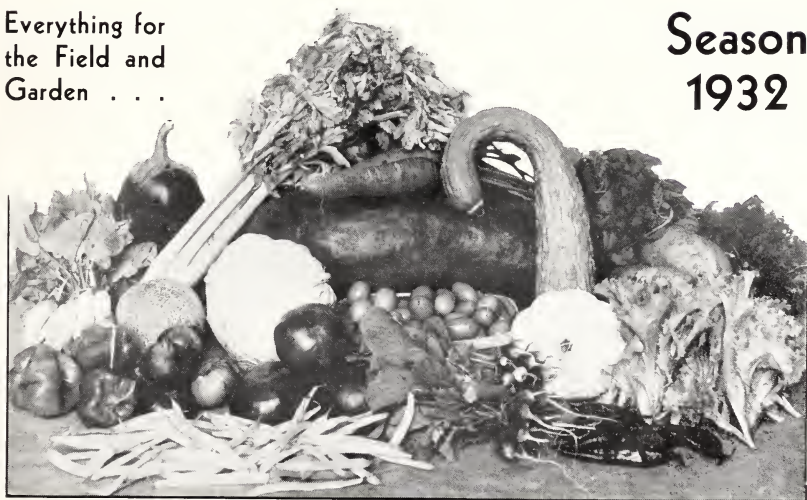
# KIRKLAND'S SEEDS



*for*  
**Southern Soils**

Everything for  
the Field and  
Garden . . .

**Season  
1932**

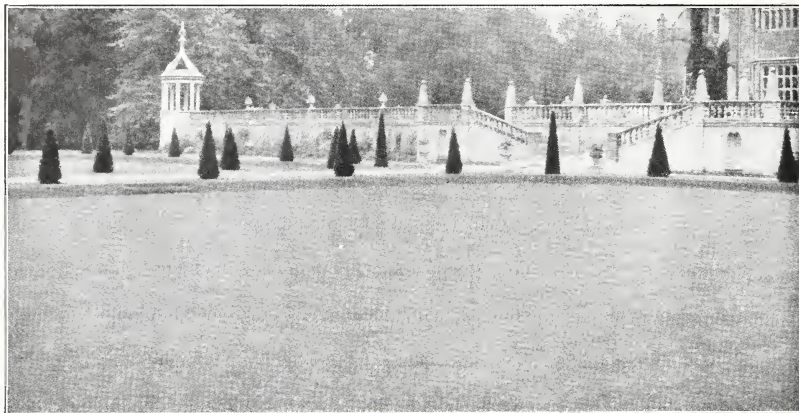


## B. B. KIRKLAND SEED CO.

COLUMBIA

: : : :

SOUTH CAROLINA



# KIRKLAND'S LAWN MIXTURES

## Preparation and Care of Lawns

The proper preparation of the ground in starting a new lawn is essential. This is too often neglected. The ground should be deeply ploughed, or spaded deep enough to leave a bed of loose earth 4 to 6 inches deep. This should be thoroughly pulverized and raked, removing all sticks, roots and stones. After getting the ground perfectly smooth, put on an application of Wizard Brand Sheep Manure, at the rate of 5 pounds to 100 square feet or 2,000 pounds to the acre; or Bone Meal, which is more lasting in its effects, 5 pounds to the 200 square feet, 1,000 pounds to the acre. **DO NOT USE STABLE MANURE;** it is unsightly, and is also a hotbed of weed seeds and worms, the very thing to be guarded against in laying a foundation for a pretty lawn. We recommend a thick seeding, sowing the seed at the rate of 1 pound to the 200 square feet (100 to 120 pounds to the acre). The land should then be gone over with a heavy roller, or the seed raked in thoroughly with a small hand-rake. The best months for seeding a lawn in this section are February, March, April, September and October. Let the grass get a start of 4 inches before cutting, as too early cutting retards growth; after this cut every ten days. During dry weather it should be watered frequently in the evenings to get the best results.

The best method to renew an old lawn in which the grass is thin and bare in spots, is to go over the lawn loosening the soil thoroughly with a sharp hand-rake. Then sow the seed, after which it is best to roll the ground, covering the seed in this way. It is best also to do this after the grass has been cut and just after a good rain. If this is done in the spring and fall your lawn will be kept thick and flourishing.

A top dressing of Bone Meal or Wizard Brand Sheep Manure in the early spring or fall is also very beneficial to old lawn already established.

### KIRKLAND'S "PALMETTO SPECIAL" LAWN MIXTURE—

Some of the most beautiful lawns in the South have been made with this mixture of grass seed, which has stood the test of many climates, and must not be compared with the ordinary Evergreen Mixtures usually sold. It is the result of over ten years of untiring study and experiment, coupled with the endeavor to give those who appreciate and desire a lawn a grass seed mixture that will produce a rich green sod in six weeks after planting, and yet make a fine and thick turf the longer it stands. It is composed of fine-leaved hardy grasses, which not only stand the heat of the summer but outlive the severest winters. Do not be afraid of sowing grasses too thickly, as a heavy seeding always means a better sod. We recommend for ground that has been properly prepared: one pound to 200 square feet; 100 lbs. to 120 lbs. per acre. Price, lb. 30c; 10 lbs. \$2.80; 50 lbs. \$13.00; 100 lbs. \$25.00. Full information for the making and care of lawns will be gladly mailed free on request.

**KIRKLAND'S "BLUE RIBBON"**—This mixture is essentially a winter and early spring grass. It will not subdue the hot weather of summer. Should be planted in October and November or in February or the first days in March. Lb. 25c; 10 lbs. \$2.40; 50 lbs. \$10.00; 100 lbs. \$18.00.

**KIRKLAND'S "SHADY NOOK"**—A mixture of grasses that thrive in shaded situations, under trees or close to walls where there is little sun. This mixture can be planted in the fall or early spring. Lb. 40c; 10 lbs. \$3.80; 50 lbs. \$18.00; 100 lbs. \$35.00.

**KIRKLAND'S TERRACE MIXTURE**—A mixture of fine stoniferous grasses peculiarly adapted to terraces. Price, lb. 40c; 10 lbs. \$3.80; 50 lbs. \$18.00; 100 lbs. \$35.00.

### "Blue Ribbon" Sheep Manure

This is an excellent fertilizer for top dressing lawns and flower beds. It is entirely free from weed seed, thoroughly dry and easily applied.

5-lb. sack	\$ .30
10-lb. sack	.50
25-lb. sack	1.00
50-lb. sack	1.75
100-lb. sack	3.00
Per ton	57.00

### Lawn Grasses

Perennial Ryegrass, per lb.	15c
Italian Ryegrass, per lb.	15c
White Dutch Clover, per lb.	50c
Kentucky Blue Grass, per lb.	35c
Carpet Grass, per lb.	35c
Bermuda Grass, per lb.	40c

Note:—For other grasses, see index for Grass Seed Pages.

# KIRKLAND'S SEEDS ORDER SHEET

**B. B. Kirkland Seed Co., Columbia, S. C.**

PLEASE DO NOT WRITE IN THIS SPACE

(State here if wanted by Mail, Express or Freight.)

(If Mrs., kindly use husband's initials or given name, as Mrs. John W. Jones.)

(If different from your Post Office.)

BEFORE ORDERING PLEASE READ DIRECTIONS FOR ORDERING IN THIS CATALOG ON PAGE 1

**REMEMBER** NO ORDER TOO LARGE OR TOO SMALL TO SEND TO **KIRKLAND'S**





1932

# The Year of Diversification

With Cotton selling at 6c per lb., Wheat in the West at 40c per bushel, Oats at 20c, and Corn at 30c and less per bushel it behooves every farmer whether large or small to plant more diversified crops and thereby provide for himself in case prices on staple and common crops fail. The overproduction of Cotton and grains is very evident and agricultural leaders and those in charge of our governments are urging farmers to curtail the acreage on these crops and thereby raise the values of the surpluses now in storage.

Our advice and suggestions to farmers is to follow this plan of procedure and plant a great deal less Cotton if you are a Cotton Planter and put the same acreage in other more profitable crops.

There are many lines of endeavor to be followed among these. We wish to call your attention to the following:

**POULTRY RAISING.** There is good profits to be made from Poultry. Feeds are very cheap and you can raise practically all of your own feeds, if you will.

**DAIRYING.** The South is far behind in Dairying. This is a very profitable line of diversification—you can also raise your own feeds and your Cows will benefit you in a great many more ways other than producing milk.

**TRUCK GROWING.** The South can supply all of the Vegetables for our larger cities and many crops produce better in our Southland than any other section of the world.

**VEGETABLES.** You not only grow Vegetables to eat and sell but you should raise enough to can. You can eat can goods any time and you can sell them also. Canning is a great opportunity for the farmer.

**BEE-KEEPING.** Every farm should have bees. Bees produce Honey, which is eatable and saleable and bees also aid the farmer in many other ways such as cross-pollinating fruit trees, clovers and other crops. Some crops cannot grow unless the Bees do this very necessary work.

Our advice to farmers in a nutshell is "Don't put all your eggs in one basket," or in other words don't plant all of any one crop but diversify your crops in such a manner that you will have many sources of income and thereby not be affected by a great overproduction or slump in price of any certain crop.

We hope as you turn through the pages of this 1932 catalog that it will suggest many things to you to do on the farm. Send us in your orders for Seeds and supplies. We will give your orders our immediate and careful attention. If there are matters that you wish to know that you don't find about in your catalog—write us and we shall be glad to write you about it.

That we thoroughly understand the needs of every farmer, market gardener and home gardener in the South, is well proven by the growth and standing of our business, and we lack words to fully express our sincere appreciation of the business we have handled in 1931, but will continue to show it in the very practical way of giving FULL VALUE FOR YOUR MONEY: GOOD MEASURE, BOTH IN QUALITY OF SEED AND SERVICE.

B. B. KIRKLAND SEED COMPANY.

January, 1932.

# KIRKLAND'S SPRING CATALOGUE 1932

## Free Delivery

Packets, Ounces or Quarter-Pounds, of all seeds excepting Beans, Corn and Peas ordered at list prices, will be sent FREE by Mail or Express.

## Order Early

It is our endeavor to fill all orders as soon as received, but during the rush season, March, April and May, delays are frequently unavoidable. Your assistance in anticipating your spring requirements and ordering your seeds, plants, shrubs, bulbs, tools, etc., for early shipment will be greatly appreciated. No Nursery Stock or Plants sent C. O. D.

## Forwarding

We mail postpaid to any Post Office in the United States vegetable and flower seeds when ordered in packets, ounces or quarter pounds, except where otherwise noted in the catalog. Agricultural seeds, implements, fertilizers, insecticides and other heavy and bulky goods are sent by express or freight at the purchaser's expense. All shrubs, bulbs, roots and plants are forwarded by express at the purchaser's expense. Parcel Post is not desirable for these articles. We will forward by parcel post where specifically requested to do so, with the understanding that it is entirely at your risk and charges must be prepaid. When ordering Beans, Corn or Peas to be forwarded by mail, add 6c per lb.; 8c for 2 lbs.; for postage in local, first and second zones; add 7c per lb.; 12c for 2 lbs. within the third zone. Other zones add postage in proportion. When larger quantities are to be forwarded by mail, postage must be added according to zone.

## Packing

No charge is made for boxes or packing for Parcel Post, express or freight shipment, except on Nursery Stock. We guarantee the safe arrival of express packages to points in the United States, and also Parcel Post packages of seeds up to and including quarter pound lots. If a package sent

by express or mail is injured or lost we will replace it as soon as informed of the fact, accompanied by "damage or loss" receipt signed by express agent or Postmaster.

## Remittances

It is preferred that remittances be made by Check, Post Office Money Order, or Express Money Order. We can use postage stamps covering small amounts but suggest that where these are sent, the letter be registered as we cannot assume responsibility where remittances are made in non-registered letters or other than above mentioned methods. Currency should not be sent by mail.

## Cash With Order

Please send money with order sufficient to cover the whole bill together with Parcel Post charges, if desired that way, or we will ship C. O. D.

## Name and Address

Please remember to write on each order, your NAME, POST OFFICE, COUNTY AND STATE; also give number of street or P. O. Box, as distinctly as possible; also the NEAREST EXPRESS OFFICE, or, if on a stage route, send us special directions.

## Catalogs

We issue two catalogs annually. Descriptive catalog in January and fall catalog in September. Customers having more than one address will oblige by stating to which address catalog is to be mailed, also advice of change of address would be appreciated.

## We Have No Agents

soliciting orders from this catalog and advise our customers to place no orders from this catalog with anyone or pay any one any money. You will find Kirkland's seeds on sale in your home town, but these merchants buy seed direct from us.

## Domestic Parcel Post Rates

On Seeds, Plants, Bulbs, Roots, Books, Tools, Etc.,  
Within the U. S. and Possessions

First Zone, Columbia 50 miles. ....	7c
Second Zone, within 50 to 150 miles. ....	7c
Third Zone, within 150 to 300 miles. ....	8c
Fourth Zone, within 300 to 600 miles. ....	9c
Fifth Zone, within 600 to 1,000 miles. ....	10c
Sixth Zone, within 1,000 to 1,400 miles. ....	11c
Seventh Zone, within 1,400 to 1,800 miles. ....	13c
Eighth Zone, all over 1,800 miles. ....	14c

First  
pound, or  
fraction

Each additional  
pound, or  
fraction

1c  
1c  
2c  
4c  
6c  
8c  
10c  
12c

NOTE: Limit of weight for delivery within the First and Second Zones, 70 lbs.; to Canada 4 lbs. 6 ozs. (postage 60c); to all other zones, 30 pounds. If weight exceeds this we will pack in two or three parcels, provided sufficient money is remitted to cover postage on goods and weight of packing. A fraction of a pound is considered a full pound.

## Non-Warranty

Most of the failures with seeds, bulbs or plants are due to causes entirely beyond our control, such as unfavorable weather or soil conditions, too deep or too shallow planting, too much or too little water, etc., which renders it impossible for us to guarantee success, and although we

take all possible care to supply only such goods as will, under proper conditions, produce satisfactory results, The B. B. Kirkland Seed Company gives no warranty, express or implied, as to description, quality, productiveness, or any other matter of any seeds, bulbs, or plants it sells, and will not be responsible for the crop. Every order for articles named in this catalog will be executed on these conditions only.



# CALENDAR FOR MONTHLY OPERATIONS IN THE SOUTH

## What to Plant and When to Plant for Each Month in the Year

### JANUARY

**FOR THE GARDEN**—Manure and prepare the soil. Top dress asparagus beds with garden, also give dressings of salt and kailit. Plant asparagus roots, cabbage plants and early crop of English peas. Plant onion sets, shallots, carrots, kale, radish, spinach, turnips. Plant in coldframes or late transplanting, early cabbage, collards, beets and cauliflower. Prune vines, fruit trees, hedges, etc. Spray fruit trees with Kirkland's Insecticides. Sow pansy and other flower seed in hotbeds for later transplanting.

**FOR THE FARM**—Vetches, oats, and wheat can be sown, also rye and bearded barley for grazing or for green crop. Top dress fall sown grain. Use every effort to prepare land for spring crops. Send in orders for seed so as to have them on hand at the proper time for sowing.

### FEBRUARY

**FOR THE GARDEN**—Plant asparagus roots and cabbage plants. Plant in hotbeds, egg plant, pepper and tomatoes for later transplanting. Plant artichokes, Irish potatoes, English peas, and onion sets. Later in the month, early corn. Asparagus, beets, cabbage, carrots, collards, celery, mustard, parsnip, parsley, radish, salsify, spinach and turnips can be sown. Finish pruning and transplanting vines and trees. Spray. Transplant strawberries. Hardy flower seed can be forwarded by sowing in hotbeds or in pots or boxes in the house, for later transplanting. Sow Kirkland's evergreen lawn grass.

**FOR THE FARM**—Sow winter wheat, clover, and rye. Sow Canada field peas, oats, rye, and bearded barley. Towards end of month grasses and clovers can be put in. Sow beardless barley; cut in April; makes an excellent crop for hay or grain, no danger in feeding, as it is free from beard. Comes off in time to plant cotton or corn. Sow Dwarf Essex Rape for early green grazing. Early corn can be planted.

### MARCH

**FOR THE GARDEN**—Active month for sowing all kinds of hardy seed. The sooner most are sown the better. Set out asparagus roots. Plant English peas. Transplant cauliflower, cabbage, lettuce from hotbeds. Sow your herbs. Plant asparagus, beets, early cabbage, corn, carrots, cauliflower, celery, collards, egg plant, Irish potatoes, kale, lettuce, mustard, okra, parsley, parsnips, pepper, radishes, spinach, spring turnips, tomatoes and salsify. Late in the month plant a few snap beans. Tomato plants may be transplanted, if protected. Prepare land for cantaloupes, cucumbers and squashes. Plant strawberries. Sow and plant your hardy flower seed. Sow Kirkland's Palmetto Lawn Grass Mixture.

**FOR THE FARM**—Sow spring oats, Canada field peas, clover and grasses of all kinds, the earlier the better. Sow beardless barley, an excellent crop, comes off in time for cotton or corn. Plant artichokes for hogs, also Dwarf Essex Rape. Put in first crop Spanish peanuts. The month for planting corn. The majority of it should be put in by the 20th. Get land in condition for planting cotton.

### APRIL

**FOR THE GARDEN**—Replant any beans necessary to secure a good stand. Plant garden corn and snap beans every two or three weeks for succession. Transplant egg plant, pepper and tomatoes. Plant cantaloupes, muskmelons, squash, and cucumbers. Lawn grass can be planted, the earlier the better. Sow flower seed. Dahlias, Gladiolus and Cannas bulbs can be set out. Plant sunflower seed in every vacant corner; not only beautifies but makes valuable feed for poultry in the fall.

**FOR THE FARM**—The cotton planting month. Grasses and clovers can be planted early in the month. Plant all cotton, chufas, peanuts, rice, watermelons and all sorghums; millets and fodder corn can be planted during this month, likewise cow peas, velvet and soy beans. Plant sweet potato cuttings. Plant mangel wurzel for winter feeding. Kaffir corn, milo maize and shallu make fine feed for poultry in the fall. Plant Bermuda seeds or sets, bene for birds, feterita, sudan grass, dasheen, watermelons.

### MAY

**FOR THE GARDEN**—Late this month transplant celery. Winter cabbage, tomatoes, etc., can be set out, well watered and protected from the sun. Plant garden corn and snap beans. Transplant English beans. Late cabbage and cauliflower can be sown for transplanting in fall.

**FOR THE FARMER**—Plant mangel wurzel for winter feeding, also sorghums. Millets can be planted, likewise cow peas, corn, cotton, chufas, peanuts, rice and velvet beans and soy beans; also pumpkins. Get oats harvested and land in condition to plant corn and cotton seed. Plant sweet potato plants, sudan grass, kaffir and feterita, watermelons.

### JUNE

**FOR THE GARDEN**—Continue to transplant winter cabbage, celery plants and tomatoes for the late crop, water and protect from the sun; continue to plant corn and snap beans; also plant running beans and watermelons. Sow coldframes for later transplanting. The winter growing of lettuce is very profitable. Plant okra, salsify, New Zealand spinach, and squash. Prepare ground for turnips.

**FOR THE FARM**—Sow millets, sorghums, cow peas, soy beans, velvet beans, peanuts and chufas. Plant your late corn and early cotton. Mangel wurzel beets can be sown. Plant sweet potato cuttings, sudan grass, feterita and kaffir corn, and beggard weed.

### JULY

**FOR THE GARDEN**—Gather and store onions, shallots and Irish potatoes. Put in another crop of beets. Plant rutabagas and turnips. Replant cabbage and celery. Sow collards for transplanting in fall. Plant cucumbers for pickling.

**FOR THE FARM**—Sow German millet, cow peas and soy beans. Put in the last crop Spanish peanuts. Plant Mexican June crop. Sow corn in drills for ensilage or fodder. Crimson and burr clovers can be sown in the last planting of corn or cotton, for winter grazing or as a soil improver. Sow Dwarf Essex rape for greens and grazing. Plant Lookout Mountain potatoes and Second Crop Cold Storage potatoes for fall.

### AUGUST

**FOR THE GARDEN**—Snap beans, lettuce, spinach, carrots, salsify, and turnips may be planted, also cucumbers for pickling. Set out your late crop of tomato plants and earth up your celery. Set out cabbage and collards for fall. Late in month English peas can be successfully planted.

**FOR THE FARM**—Crimson clover should be sown. Excellent hay crop for grazing, and a wonderful soil improver if turned under. Rye and bearded barley should be sown for fall and winter grazing. Rye can be planted as a cover crop and turned under. Beardless barley can be planted last of the month and cut in October and November, followed by other grain crops. Towards the end of the month sow vetches and rape. Grasses can be put in. Alfalfa and clovers can be successfully planted. August 1st sow amber sorghum and sudan grass. Sow burr clover in cotton and corn middles.

### SEPTEMBER

**FOR THE GARDEN**—Carrots, kale, beets, chard, lettuce, spinach, radishes, turnips, salsify, parsnip and parsley can be sown. Set out collards, winter cabbage. Put out onion sets for your early crop. Strawberry beds should be prepared and plants set out. Early flowering bulbs can be planted.

**FOR THE FARM**—Sow beardless barley, cut in November. Cut in bloom makes excellent hay, or ripe makes fine grain for food; no beards, can be fed to stock without danger. Comes off in time to be followed by other grain or clover or early crops. Sow crimson clover. Sow burr clover in Bermuda fields, and corn in cotton middles. Sow vetches, grass and clover seed. Winter turf and grazing oats do well sowed this month, as they get well rooted before the cold. Sow barley and rye for winter grazing. Plant Essex rape and Kirkland's grazing mixture.

### OCTOBER

**FOR THE GARDEN**—Turnips can be planted for winter use, but it is almost too late to bring roots to much perfection. Collards, kale, lettuce, mustard, and spinach can be grown. Onion sets can be planted. Plant your strawberry beds. Plant hyacinth bulbs, tulips, narcissus, jonquils, crocus, freesias and Chinese sacred lilies. Plant Kirkland's Palmetto Lawn Mixture.

**FOR THE FARM**—All kinds of grasses and clovers can be sown. Clovers should not be put in early in the month. Sow barley and oats, wheat, rye and vetches.

### NOVEMBER

**FOR THE GARDEN**—English peas may be planted this month. Strawberry beds planted. Onion sets and cabbage plants can be planted. Begin to get ready to start spraying. Sow lawn grass and flower bulbs—See October.

**FOR THE FARM**—Gather and bank sweet potatoes. Barley, oats, rye, and wheat can be sown. Herd's grass. Sow Canada field peas, vetches and clover and Kirkland's Grazing Mixture. Sow rye on all vacant land for fall grazing and cover crop to improve the soil.

### DECEMBER

**FOR THE GARDEN**—Prepare your hotbeds and cold frames. Plant onion sets, cabbage and lettuce, and beets can be sown in hotbeds or coldframes for later transplanting. The winter growing of lettuce is very profitable. Prune your trees and vines and spray for scales with Kirkland's spray materials. Plant asparagus roots.

**FOR THE FARM**—Oats, wheat, vetches and clovers can be planted. Rye and barley for grazing and grain crops. Canada field peas can be sown, but must be planted deep.

# SPRAYING TABLE

USE INSECTICIDES AT THE RIGHT TIME—AND KEEP YOUR PLANTS AND FLOWERS FREE FROM INSECT PESTS

What to Spray and What to Spray For	Spray With	Time of First Spraying	Time of Second Spraying	Time of Third Spraying
<b>APPLES—</b>				
Bitter Rot	Bordeaux mixture, Pyrox.	First appearance of rot.	One to two weeks later.	Two weeks later.
Canker Worm	Arsenate of lead, Pyrox.	On first appearance of worms.	Two or three days later if worms remain.	Same as second.
San José Scale	Scalecide or lime-sulphur.	Just as the leaf buds are swelling.	Just before the flower buds open.	As soon as the petals have fallen.
Scab	Scalecide or lime-sulphur.	After the leaves have come out, but before the flower buds appear.	Within eight days from the time the petals drop.	One month later.
Codling Moth	Arsenate of lead, Pyrox.	Within eight days from the time the petals drop.	One month later.	
<b>ASPARAGUS—</b>				
Beetle	Arsenate of lead, Pyrox.	Early spring.		
Rust	Bordeaux mixture or Pyrox.	After cutting crop.	Ten days later.	Ten days later.
<b>CABBAGE AND CAULIFLOWER</b>	Slug Shot, Bug Death, Pyrox.	On first appearance of worms.	Whenever worms are noticed.	
<b>CELERY</b>	Bordeaux mixture, Pyrox.	On young seedlings.	Repeat on seedlings.	Before or after transplanting.
<b>CHERRY—</b>				
Aphis	Black Leaf 40, Scalecide or lime-sulphur	At first appearance.	Repeat as necessary.	
San José Scale	Sulphur	Spray same as for apples.	When fruit is free from calyx.	
Leaf-spot	Scalecide or lime-sulphur.	Just before blossoms open.		
<b>CUCUMBERS—</b>				
Anthraxnose	Bordeaux mixture, Pyrox.	When plants begin to run.	Two weeks later.	Two weeks later.
Downy Mildew	Bordeaux mixture, Pyrox.	When plants begin to run.	Ten days later.	Nine days later.
<b>CURRENT—</b>				
Leaf-spot	Bordeaux mixture, Pyrox.	As leaves are unfolding.	Two weeks later.	Two weeks later.
Worm	White hellebore, Pyrox.	When they first appear.	In three or four days.	Repeat three or four days later.
<b>GOOSEBERRY—</b>				
Leaf-spot	Bordeaux mixture, Pyrox.	Before leaves start.	Two weeks later.	Two weeks later.
Worm	Same as for currants.		Repeat every ten days until fruit is gathered.	
Mildew	Grape dust, Pomo dust.	When buds are breaking.		
<b>GRAPE—</b>				
Anthraxnose	Bordeaux mixture, Pyrox.	Just before the buds open.	Just before blossoming.	After fruit has set.
Berry Moth	Arsenate of lead, Pyrox.	Before blossoms are ready to open.	After blossoms have fallen.	Ten days later.
Downy or Powdery Mildew	Bordeaux mixture, Pyrox.	Just before blossoming.	After fruit has set.	Eight days later.
Rot	Bordeaux mixture, Pyrox.	Just before blossoming.	Just after fruit has set.	
<b>MUSKMELON—</b>				
Anthraxnose	Bordeaux mixture, Pyrox.	When plants begin to vine.	Two weeks later.	Two weeks later.
Downy Mildew	Bordeaux mixture, Pyrox.	July 25 to August 1.	Ten days later.	Nine days later.
Leaf-blight	Bordeaux mixture, Pyrox.	When plants begin to vine.	Three weeks later.	Three weeks later.
<b>PEACH—</b>				
Leaf-Curl	Scalecide, lime-sulphur or Bordeaux mixture	In March or April, or both to make doubly sure.	Two or three weeks later.	About one month before fruit ripens. Omit arsenate of lead.
Brown Rot	Self-boiled lime-sulphur and Arsenate of lead.	About the time shucks are shedding from young fruit or on first appearance.		
Scab	Sulfocide, self-boiled lime-sulphur.	Just as buds begin to swell.	After fruit has set.	Repeat later when fruit is about half grown.
San José Scale	Scalecide or lime-sulphur.	Spray same as for apples.		
<b>PEAR—</b>				
Leaf-blight	Bordeaux mixture	Cut out the branches on first appearance on twigs.		
Psylla	Black Leaf 40 or whale-oil soap.	In winter use commercial lime-sulphur for eggs.	After blossoms fall.	Repeat at intervals of three to seven days.
<b>PLUM—</b>				
Cerculio	Arsenate of lead.	With starting of buds.	Just after blossoms drop.	Five days later.
Aphis	Whale-oil soap, Black Leaf 40.	On appearance of Aphis.		
Shot-hole Fungus	Scalecide, lime-sulphur or Bordeaux mixture	When leaves are half grown.	Three weeks later.	Three weeks later if necessary.
Rot	Bordeaux mixture, Pyrox.	As buds are swelling or on appearance.	Just after calyx drops.	Three or four weeks later.
<b>POTATO—</b>				
Early blight	Bordeaux mixture, Pyrox.	When plants are 6 inches high.	Seven to ten days later.	Two weeks later.
Late blight	Bordeaux mixture, Pyrox.	As for early blight to July.	July 15 to 20.	Two weeks later.
Potato Beetle	Paris green, slug shot bug death, Pyrox, Calcium arsenate.	When pest appears.	Repeat if necessary.	
<b>RASPBERRY—</b>				
Anthraxnose	Bordeaux mixture, Pyrox.	Before leaves open.	When new canes are 6 to 8 inches high.	Ten days later.
Saw-fly	Paris green and arsenate of lead or hellebore.	When pest appears.	Repeat in three or four days.	
Leaf-spot	Bordeaux mixture, Pyrox.	When leaves are half grown.	Two weeks later.	Two weeks later.
<b>ROSE—</b>				
Leaf-spot	Pomo dust, All in one dust, Pyrox	On first appearance of fungus.	Two or three weeks later.	Repeat if necessary.
Mildew	Powdered sulphur, Pomo dust.			
Slug, Aphis, etc.	All in one dust, Thanatus, Black Leaf 40, Nicofume Liquid, All in one dust.	On appearance of slugs, etc.	Repeat if necessary.	
<b>STRAWBERRY—</b>				
Leaf-spot	Sulphate of iron, Bordeaux mixture, Pyrox.	Soon after growth begins.	Make three or four sprayings during season.	The following spring spray just before blossoming and again 10 days later.
<b>SQUASH—</b>				
Aphis	Black Leaf 40.	Spray under side of leaves.		
Lady Beetle	Arsenate of lead, Pyrox.	As soon as pest appears.		
<b>TOMATO—</b>				
Anthraxnose	Bordeaux mixture, Pyrox.	Soon after fruit begins to set.	Three weeks later.	Three weeks later.
Leaf-blight	Whale-oil soap and water.	Three weeks after transplanting.		
White Fly	Bordeaux mixture, Pyrox.	Spray underside of leaves thoroughly.	Three weeks later.	Three weeks later.

# VEGETABLE SEEDS

With General Directions for Cultivation

## ASPARAGUS

(ROOTS READY AFTER MARCH 1ST)

One ounce to forty feet of drill; 5 lbs. per acre.  
7,300 Asparagus Plants are needed to plant an acre.

**CULTURE**—Sow in March or April, in rows one foot apart. When two years old transplant into permanent beds, which should be well and deeply manured, and trenched to the depth of two feet. In planting for private use, set out in beds five feet wide, three rows in a bed, the outer being each one foot from the edge, and allow eighteen inches between the rows; set the plants from four to six inches below the surface. If set out in autumn, topdress with six inches of manure. For market on a large scale, set out four by one and one-half feet. On the approach of winter cover with manure or compost; fork the beds early in spring and apply a dressing of salt. Cut for use the second year after planting in permanent bed. Never cut too closely. The roots need the benefit of some foliage during the year, else they will weaken and die. Slugs are easily destroyed by applying air-slacked lime or Paris green.

1. **Giant Argenteuil.** A new and entirely distinct variety that produces shoots that are very thick, green, with purple tinge, heads slightly pointed, close. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.
3. **Washington.** This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust-free. The shoots are thick and heavy. They are long and straight, with closely folded tips. The color is rich dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor. Pkt. 10c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.
4. **Conover Colossal.** Of large size, tender and of excellent quality. Green shoots. Pkg. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.
5. **Palmetto.** It is of very large size, even and regular in growth and appearance. It is a very early sort, immensely productive and of best quality. Green shoots. Pkg. 10c; oz. 15c; ¼ lb. 25c; lb. 75c.
6. **Asparagus Knives.** Very handy and useful for cutting Asparagus. Each 40c (postpaid, 45c).
7. **Asparagus Roots.** The quickest, most satisfactory way to grow Asparagus is from the roots. \$1.50 per 100 postpaid. Not postpaid, \$1.25 per 100; \$8.50 per 1,000.



Washington Asparagus



Burpee's Improved Bush Lima Beans

## BEANS

### Dwarf or Bush—Green Podded Varieties

**CULTURE**—In this latitude (Columbia) sow Bush Beans from March until September. Continuous crops may be grown through the entire summer. In Florida and along the Gulf Coast plantings may be made earlier, but Bush Beans will not grow well in that section during June, July and August, so that spring and fall plantings should be made. Sow in drills 18 inches to 2 feet apart, dropping a bean every 4 inches and covering 2 inches. Soil should be warm for successful germination. When about to bloom draw the earth up around the stem. Keep the soil stirred frequently, and as fast as the beans mature pick them off if you want them to stay in bearing for a long time. Quantity needed for planting—one pint for each 75 feet of row.

9. **Extra Early Black Valentine.** A fine extra early type of the Valentine Bean, is very resistant to cold and can be planted early and late; also resists heat well, making it a fine mid-summer bean; stands shipping fine; is used for this purpose extensively, and is planted altogether in some sections for a shipping bean. Does not wilt quickly; retains its shape and flavor a long time after picking. Pkt. 10c; ¼ lb. 20c; lb. 30c; peck \$2.50; bushel \$9.50.



# BEANS—DWARF or BUSH

**8. Burpee's Stringless Green-Pod Bean.** The most delicious flavoring bean grown. Remains tender for a long time, and is stringless during all stages of growth. A fine, brittle, crisp bean; very prolific, and a vigorous, strong grower. Comes into bearing about the same time as the Valentine, and continues to bear long after other bush kinds have stopped. Pkt. 10c; ½ lb. 20c; 1 lb. 30c; peck \$3.00; bushel \$11.00.

**10. Long Yellow Six Weeks.** Early, very attractive, long, fleshy pods. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**11. Kirkland's Giant Stringless Green Pod.** Most desirable for the home-garden. The earliest and at the same time the hardest of all green-podded sorts, producing large, handsome pods, some of which measure fully six inches in length. The pods are round, straight, brittle, tender, of the finest flavor, fleshy, and positively stringless. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**12. Bountiful.** An improved Long Yellow Six Weeks. Being earlier, harder and producing better and larger pods and more of them. Pods grow to large size, are broad and fleshy; absolutely stringless, tender, of finest flavor and good appearance. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**13. Tennessee Green Pod.** This is a very hardy Bush Bean which is noted for its tender, long, which are practically free from strings. It gives beautiful crops and is a longer bearer. Pkt. 10c; lb. 30c; peck \$2.50; bushel \$9.50.

**14. Longfellow's Green Pod.** This bean is very extensively planted by truckers in the South, and is especially adapted to climate. It being an early variety which bears very profusely. The pods being of a long round shape and very tender. Pkt. 10c; lb. 30c; peck \$2.50; bushel \$9.50.

**18. Extra Early Red Valentine.** This variety without doubt is the best known and most widely planted variety in the South, and for either market or home use always gives entire satisfaction. Caution should always be used in buying this stock of beans, as large quantities of cheap stocks are sold yearly that make flat, tough, stucky pods. You can depend on Kirkland's strain to be the best that are grown. When you plant our strains you are sure of a vigorous growth, heavy bearing qualities and an abundance of finely flavored pods, well filled out and of excellent quality. Pkt. 10c; lb. 30c; peck \$2.50; bushel \$9.50.

**19. Kirkland's Refugee, or 1,000 to 1.** Very hardy, reason a great favorite for July planting; fine to be used in the fall for pickling. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

## Wax-Podded Varieties

**15. Currie's Black Wax.** As near rust-proof as any variety can be. Makes pods about six inches long, beautiful golden color and a first-class shipping bean, well liked all over the South. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**16. Rust-Proof Golden Wax.** An excellent strain, rust-proof, fine flavored and liked all over the South. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**17. Prolific Black Wax.** An extra-early prolific strain and very similar to the old German Black Wax. Small black-seeded kind that is a heavier bearer than the old original variety. This bean will give entire satisfaction for a prolific wax kind. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

## Dwarf or Bush Limas

**21. Henderson's Bush Lima.** Smallest but most prolific of all the Bush Butter Beans of the South, being similar in appearance to the Sieva, or small pole lima, but of a true bush form. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**20. Jackson's Wonder Bush Lima.** The most prolific of all bush limas, bearing from the earliest possible time until frost, and continually supplying quantities of delicious beans, which are bluish brown mottled in appearance. This bean will flourish in the driest weather. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**22. Fordhook Bush Lima.** This is generally conceded to be the best of all large bush limas, making large, roundish beans, pods clustering from four to eight on the stem. You will make a mistake if you do not include some of these fine beans in your garden this spring. Pkt. 10c; lb. 35c; peck \$4.00; bushel \$14.00.

**24. Burpee's Bush Lima.** A large, flat variety, bearing heavy crops late in the season. Pkt. 10c; lb. 40c; peck \$4.00; bushel \$15.00.

## Pole, Butter or Lima Beans

**23. Sieva.** (or Small White Pole Butter). This is the best known pole bean planted in the South; is the most prolific bean of the lima group. Will bear continually until frost, and makes a most excellent dry shell bean for winter use. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**25. Large White Lima** (or King of the Garden Lima). A fine type of the large pole butter or lima bean, making enormous pods well filled with beans of the finest flavor. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

## Pole, or Running Snap Beans

**26. Kentucky Wonder.** (Texas Prolific, or Old Homestead). This excellent bean is known under all three of these names, and is no doubt the best known and heaviest planted variety in existence today. Bears in about two months after planting, and if closely picked will continue to bear until frost. Pods are large, round and long, very meaty and tender. Will grow well in corn on moist land. You have no doubt grown this old favorite before and do not need to be told about it; but if you have not, do not let another planting season pass before trying this kind. Pkt. 10c; lb. 30c; peck \$2.50; bushel \$9.50.

## 27. Kirkland's Genuine Cornfield Bean.

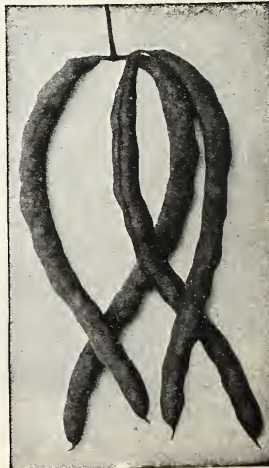
A fine late or October bean that will grow well in corn. This is a fine-flavored genuine cornfield bean, making pods about six inches long, and a most prolific type of this bean. Seed white. Pkt. 10c; lb. 30c; pk. \$3.00; bus. \$11.00.

## 28. White Kentucky Wonder.

Similar to the Old Homestead but is earlier and covers a longer season of productive-ness; being white-seeded makes it also a splendid white shell bean. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

## 29. White Crease-back.

A white-seeded round green-pod Pole Bean, a prolific yielder of excellent quality. Sometimes called White Cornfield Beans. Pkt. 10c; lb. 35c; peck \$3.00; bushel \$11.00.



# TABLE BEETS

One ounce of seed sows sixty feet of drill; five pounds will sow  
an acre in drills.

**CULTURE**—The soil best suited to the culture of the beet is that which is rather light, provided it is thoroughly mixed with manure. If wanted very early, sow in hotbeds and transplant; but for main crop sow in the spring as soon as the ground becomes fit to work, in drills 18 inches apart and two inches deep. For winter use sow as late as July. When the plants have attained three or four inches in height, thin out so that they stand five to six inches apart. Keep free from weeds. Before freezing weather sets in, the roots may be stored in cellars or pits, same as Potatoes; dry earth thrown over them before the straw and earth covering is put on insures their keeping over winter. Be careful not to bruise them in handling.

- 30. Early Blood Turnip.** Round, of good size, dark red; quality good, one of the best for main crop. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.
- 31. Kirkland's Extra Early Eclipse.** The most popular market beet. Globe shaped, dark and tender; very early. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.
- 32. Improved Long Blood Beet.** This is a long, smooth beet, adapted to late plantings and fine for dry weather. Root extends well down into earth where moisture is available. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.
- 33. Improved Early Blood Turnip.** Dark red, smooth; uniform; a good variety for home use. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.
- 34. Half-Long Smooth Blood.** Half-long variety of excellent flavor. Good sure cropper. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.
- 35. Detroit Dark Red.** A fine strain of Blood Turnip, but uniform in size, and smooth, medium size, rich, red color, tender and remaining so for a long time. Good for both summer and fall use; one of the best for home use. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 90c.
- 36. Crosby's Egyptian.** Very early strain of the old standard Egyptian; small tops; good shape, popular with the truckers. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 90c.
- 37. Trucker's Perfection Beet.** The market gardeners' favorite. This is an extra early round deep blood red sweet tender beet, and one that we recommend without reservation to those that like an extra early beet. This variety has a small top, and in favorable seasons is in marketable size in 6 to 7 weeks from planting. This is a very productive beet that is a good shipper and keeper. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 90c.
- 38. Swiss Chard or Sea Kale.** A beet grown for its leaves only; the main midrib can be cooked like asparagus, the other portion of the leaf is cooked like spinach; thrives well in moist rich places and will make an abundance of delicious greens. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25.



Detroit Dark Red Beet

## Mangels and Sugar Beets

Use for Feeding Cattle—Sow Five lbs. Per Acre

**CULTURE**—Sow in April and May in thoroughly plowed, well-manured soil, in drills 2 inches deep and about 18 inches apart. Thin out to 12 inches and keep the weeds down by frequent hoeing and cultivating. Low ground is best adapted for Mangel-Wurzel. An ever-increasing acreage is being planted for stock beets. Fattening, breeding and milk cattle do equally well on them. About one-fourth of the daily rations should be of roots. Hog cholera is prevented by their use.

- 39. Golden Tankard.** Very hardy, producing large crops with little care. The root is very large and very rich in sugar, and while not sufficiently so for sugar purposes, it makes remarkably fine, rich food for stock. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.
- 40. Mammoth Long Red Mangel.** Very large, long red; makes fine stock feed, high in sugar content; grows well all over the South. Plant early and fertilize well and you will have abundance of feed. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 80c.

## Broccoli

- 41. Early White.** Closely related to the cauliflower from which it was bred; grows taller than cauliflower; is fine for fall or spring planting and is a good sure cropper. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.25.
- 41 $\frac{1}{2}$ . Purple Broccoli.** Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.25.

## Brussels Sprouts

- 42.** Belong to the cabbage family, making clusters of miniature cabbage heads around the main stalk; these heads are very delicious, with a flavor something like cauliflower; tops grow open like collard heads. Pkt. 10c; oz. 35c;  $\frac{1}{4}$  lb. 90c.

## SWEET POTATO PLANTS

DELIVERY ABOUT MARCH 15th or April 1st. Orders booked with us in advance get the preference of early shipments.

### GENUINE PORTO RICO SWEET POTATO PLANTS

Free of disease and Government inspected.

Per 100, 40c postpaid, not postpaid. Per thousand, \$2.50, in lots of 10 thousand \$2.25.

In lots of 25 thousand or more \$2.10 per thousand.

We can supply NANCY HALL, AND BIG STEM JERSEY VARIETIES OF SWEET POTATO PLANTS AT SAME PRICES AS ABOVE.

For prices on other varieties of plants see Page 8.



Crosby's Improved Egyptian



# KIRKLAND'S CABBAGE SEEDS



Early Jersey Wakefield Cabbage

Cabbage seed is one of our specialties, our seed are grown by the most reliable growers in the Long Island section. These seed are best adapted to this climate and no better seed can be had.

**NOTE**—We make special prices to truckers who buy in quantities.

**CULTURE**—One ounce is sufficient for 100 feet of drill, 8 ounces will give enough plants for an acre. For early spring cabbage, sow  $\frac{1}{4}$  of an inch deep from the middle of September to the middle of October, and when the plants are large enough transplant in rows  $2\frac{1}{2}$  feet apart, leaving about 15 inches between the plants, but many successful growers are now setting them as close as 12 inches. When a supply of plants has not been secured in the fall, sow in cold frames in December, or in a gentle hotbed the last of February; give plenty of air at proper times in order to harden the plants and transplant in the open ground as soon as the weather permits. For a summer crop, sowings may be made in March until the middle of May. For winter cabbage sow flat Dutch, Drumhead and Savoy from middle of May to last of July, transplanting when large enough; late cabbage should be set 3 feet apart and not less than 18 inches in the row. It is useless to attempt the cultivation of this crop without deep and thorough plowing or spading and an abundance of rich, well-decomposed manure or suitable substitutes. Frequent stirring of the soil is essential especially when seasonable rains are lacking. Each time the ground is worked it should be drawn up a little more around the stem until the head begins to form, when one final, thorough cultivation should be given. Many successful gardeners grow cabbage without transplanting, sowing the seed thinly in drills or in hills, and afterwards thinning to the proper distance in the row.

**43. Charleston Wakefield.** Just a little later and larger than the Early Jersey and is fine for following this crop; both cabbage are the same shape, the greatest difference being in the size. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00; 5 lbs. \$1.75 per lb.

**44. Late Flat Dutch.** This is an old variety that is too well known for describing; an extra-fine late flat-head variety that always gives splendid results, and has many friends both among home gardeners and truckers. It is well to include this with your early cabbage for late crop. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00.

**45. Early Jersey Wakefield.** A gem of a little cabbage and one of the great favorites with home gardeners on account of its size; can be planted closer than large varieties and its size makes it the best variety for backyard gardens where small amounts are wanted at one time. This is also a great favorite with market gardeners for an extra early crop. A good sure cropper. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00; 5 lbs. \$1.75 per lb.

**46. Early Flat Dutch.** Most popular cabbage in South Texas and Gulf Coast sections for a market and shipping variety. A splendid strain of Flat Dutch, just a little later than the old-time Early Flat Dutch. Fine shipping variety for all sections. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 80c; lb. \$2.00.

**47. Early Winnigstadd.** A second early to the York, same shape, but with few outer leaves. Comes just a few days before the Jersey Wakefield. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 80c; lb. \$2.75.

**48. All Seasons.** A fine early flat-head cabbage, adapted to culture in all seasons of the year; a good header and keeper, making medium-sized heads a good all-around cabbage for any purpose. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00.

**49. Copenhagen Market.** Danish grown seed. Matures in 95 days. A new cabbage in enormous demand by planters everywhere. Just a few days later than Wakefield, considerably harder. Larger and has the advantage of being a round-headed type. It is practically the only round-head extra early cabbage we have, and the earliest of that class. Weighs from 10 to 14 pounds

at maturity. Virginia and New Jersey truckers have given this a larger acreage than formerly was devoted to Wakefield. They claim that better prices are possible from this type on account of its size. Finest imported seed. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 90c; lb. \$2.50; 5 lbs. \$2.25 per lb.

**50. Late Drumhead.** Another old standard variety that has held its popularity for years and is still well known and a largely planted kind; is a good solid hard header and good sure cropper. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25.

**51. Succession.** This is largely a market gardener's variety, and is used mostly in the South for shipping purposes; is a large flat top variety with good color and firmness, being about twice the size of most other large sorts; premier brand seed. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25.

**52. Surehead.** A very sure header; this is a desirable cabbage crops. It is noticeable for uniformity of size, firmness of head, and fine texture. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.

**53. Early Trucker.** In Early Trucker we have the best large variety of the Drumhead type for both medium and late crops. It is noticeable for uniformity of size, firmness of head, and fine texture. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00.

## FROST-PROOF CABBAGE PLANTS

Order Early to Get Plants Delivered in Time

**VARIETIES.** Early Jersey Wakefield, Charleston or Large Wakefield, Succession and Early Trucker, or Flat Dutch. Price per package. In lots of 100, 200, 300, or 400 plants at 30c per 100 plants; 500 plants for \$1.60; 1,000 or more at \$2.00 per 1,000 plants.

Orders are filled by the 100, not 250 or 350. These prices are for even quantities of one variety to package. If you ordered 200 of one variety and 300 of another variety you would pay at the 100 rate.



Prices by Express, buyer paying express charges.—In lots of 1,000 to 3,000 plants at \$1.50 per 1,000; 5,000 or more at \$1.30 per 1,000. Plants packed for express shipment, 1,000 or 2,000 plants of a variety to package, they weigh about 25 pounds per thousand plants, packed for shipment.

## ONION PLANTS

Plant Onion Plants for PROFIT. One thousand Onion Plants will produce 2,400-lbs. of Dry Onions when grown. At the market price of Onions today this would net you \$144.00 from only 1 thousand plants.

Our plants are grown from Seed imported direct from Bermuda.

Crystal Wax, Yellow and White Bermuda, Prizetaker varieties, 30c per 100 (Postpaid). Not postpaid, per thousand \$1.50, in lots of 6 thousand or more per thousand \$1.25, in lots of 20 thousand or more \$1.10 per thousand.

## Red Cabbage

**55. Mammoth Red Rock.** Market gardeners will find this strain a great improvement over existing varieties. While not early, it is of the best quality, has few outside leaves, and is of the darkest red color. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

**54. Red Benith.** While not so large as Mammoth Red Rock, this variety is earlier in maturing, producing a fine solid head, richly colored and of good quality. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

## Chinese Cabbage

**56. Pe-Tsai.** The value of this much advertised "Chinese or Celery Cabbage," we think, has been over-estimated. In growth it resembles our Cos Lettuce somewhat, and is a very popular vegetable with the Chinese, being used both raw and boiled. It does best as a fall crop. Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.00.

## Collards

An old-time standby for winter greens all over the South. Well adapted to every Southern State, and is a species of cabbage, not only hardy but a vigorous and continuous grower, producing a mass of leaves and later a fairly good head. Not in its best condition until touched by frost. Seed can be sown here from early spring up to October 1st. When plants are 6 inches high transplant to open ground, setting 2 feet apart in the row. Cultivate like cabbage. Sow one ounce of seed to 200 feet of row.

**57. Improved White Cabbage Collard.** This is the quickest growing, best flavored collard grown. It always brings the best price and the most profit because it so quickly makes a large, compact, tender growth. Makes the finest looking quickest selling collard we have ever seen, the best of all for home or market use. This is the collard that will please everybody—the collard that everybody will soon be planting. The only collard to plant for profit. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 80c, postpaid.

**58. True Georgia.** (Blue Stem.) The old standard and most popular collard grown throughout the South, tall and long stemmed, good flavored and very hardy. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c.

## Carrots

**CULTURE**—Sow from February to September in light, deep, rich soil in drills 12 inches apart; plants should stand 5 inches apart in the rows; fertilize well. One ounce of seed to 100 feet of drill; 4 pounds to the acre.

**59. Denver's Half Long.** Rich, dark, orange colored, good quality. Pkt. 5c; oz. 15c; ¼ lb. 35c; 1 lb. 85c; parcel post paid.

**61. Chantenay.** This is a stump-rooted variety, the best of its class. A half-long sort, unequalled in quality and productiveness; very uniform in growth; flesh deep golden color; roots 3 inches in diameter at top and about 5 inches in length, gradually tapering in symmetrical manner to the base. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 80c.



Kirkland Improved Long Orange Carrots

**65. Oxheart, or Guerande.** The best of the short-rooted, thick-formed carrots. Roots 3 inches wide at top, tapering to 2 inches in diameter at the bottom. Length about 5 to 6 inches. Roots very free from hard core and of finest quality for table use. Both skin and flesh are highly colored. Being very short they are easily pulled from the ground, where the long sorts often have to be dug or plowed out in heavy soil. This is the carrot for you to plant this year. Easily grown and entirely satisfactory for home garden or market. Pkt. 10c; oz. 20c; ¼ lb. 35c; lb. 90c.

**60. Improved Long Orange.** Old, well-known variety. Roots long and of deep, rich orange color. Heaviest cropping table carrot and profitable to grow for stock feed as well. Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.00.

**62. Large White Belgian Carrot.** (For Stock Feed Only.) The Sow is just beginning to appreciate the value of root crops for stock. Of these the Belgian Carrot is an immense cropper, having produced as high as 20 tons of roots per acre. Plant on land that has previously been cultivated and worked deeply. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 90c.

## Cauliflower

**CULTURE**—One ounce is sufficient for 100 feet of drill; 4 ounces will produce enough plants to set an acre. Sow out of doors the last of September in a carefully prepared bed ¼ of an inch deep, rolling or treading with the surface if the weather be dry, and transplant into cold frames for protection during the winter; or in a gentle hotbed in November, transplanted into cold frames, and set in field early in April, in rows 2½ feet apart, allowing 18 inches between the plants. While in the frames the plants must be kept free from slugs, and if they appear, the soil and plants should receive a light sprinkling of lime.

**63. Snowball.** Probably the earliest variety and like our Thoroughbred White Bouquet, is as equally celebrated. We recommend both selections unreservedly, but find that in different sections preference is often shown for one or the other, owing to the effects of various soils and climates. The Snowball is characterized by symmetry of head, beautiful color and shortness of stem. Pkt. 25c and 50c; oz. \$1.00; 2 ozs. \$1.75; ¼ lb. \$3.50; lb. \$12.00.

## Celeriac

**CULTURE**—One ounce is sufficient for 100 feet of drill; 4 ounces will produce enough plants to set an acre. Sow in drills ¼-inch deep and 18 inches apart. This is a species of celery grown for its roots, which are really delicious when properly prepared, and also useful for flavoring soups, stews, etc.

**69. Giant Prague.** This is the best and one of the largest varieties. Pkt. 10c; oz. 30c; ¼ lb. 70c; lb. \$2.50.

## Celery

**CULTURE**—One ounce is sufficient for 100 feet of drill; 4 ounces will produce enough plants to set an acre. The cultivation of celery in a hot climate is attended with some difficulty, but while Southern celery is rarely so large as that grown in colder sections, it is not surpassed by any in firmness of grain and delicacy of flavor. Sow from April to July not more than ¼ of an inch deep in a moist place, lightly rolling or pressing the surface after sowing to facilitate germination. If the seed bed is very finely pulverized, the seeds may be simply scattered over the surface and then pressed into soil with the hand or back of spade, the whole bed then covered with old bags until the seeds germinate.

**64. Golden Self-Blanching.** This is the most popular with all Southern market gardeners, and is far superior to all other sorts. Compact in growth, large stalks, and a beautiful rich golden yellow. Crisp and tender and free from stringiness. Our Golden Self-Blanching Celery Seed is grown for use in France by the originator, and can be depended upon for great purity and exceedingly fine quality. Pkt. 25c; oz. 80c; ¼ lb. \$2.50; lb. \$7.00.

**65. White Plume.** Once a popular variety, because it does not require banking as other celeries do, on account of the stalks, portions of the inner leaves and heart being naturally white. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

**67. Giant Pascal.** A deep green selection from the Golden Self-Blanching, and especially adapted to Southern cultivation. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

**68. Winter Queen.** An exceptionally fine winter variety and especially recommended for its long keeping qualities. Pkt. 10c; oz. 30c; ¼ lb. 90c; lb. \$3.00.



## Sweet or Sugar Corn

**75. Golden Bantam.** An extra early sweet corn of very sweet than other sweet corns; small ear of golden yellow color, bears two and three ears to the stalk. Pkt. 10c; lb. 25c; 2 lbs. 40c; 5 lbs. 95c; 10 lbs. \$1.25.

**76. Early White Evergreen.** An early variety of Stowell's Evergreen type, pure white kernel, deep grains and delicious in flavor; a very desirable corn for market gardeners, canners and home gardeners. Pkt. 10c; lb. 25c; 2 lbs. 40c; 5 lbs. 95c; 10 lbs. \$1.25.

**77. Stowell's Evergreen.** This is the universal sugar corn. It makes large, well filled ears, bears abundantly on good soil; and the ears remain in the green state for a long time; deep-grained and very sweet. Pkt. 10c; lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00; 10 lbs. \$1.80.

**78. Country Gentleman.** One of the richest and most popular late sweet corns, has a good sized ear with small cob, long slender grains, and is especially recommended for home gardeners. Pkt. 10c; lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00; 10 lbs. \$1.80.

**81. Howling Mob.** A large-eared fine second early corn. About the same season as Early Giant. The kernels are small in size, of delightful flavor and make a most attractive appearance. Of the highest value for market gardeners and equally good for the garden. Pkt. 10c; lb. 25c; 2 lbs. 45c; 5 lbs. \$1.00; 10 lbs. \$1.80.

## Kirkland's Garden Corn

**CULTURE**—Plant early corn in rich and well-manured ground from March to middle of April. Sugar corn in May, if ground is warm. Cultivate frequently. Plant a piece about every two or three weeks to get a succession of roasting ears. The early varieties can be planted as late as July for late roasting ears. One quart plants 200 hills, eight quarts per acre.

**70. Adams Extra Early.** The earliest sweet corn in cultivation, makes a small ear and stalks, can be planted close together, and is used by our market gardeners to catch the early market. Shelled—Lb. 20c; 10 lbs. \$1.25.

**71. Adams Early.** Similar to Adams Extra Early, but a little later than sugar corn; a profitable corn for truckers. Shelled—Lb. 20c; 10 lbs. \$1.00.

**72. Adams Improved Early.** An improved strain of the Early Adams, with larger and more uniform ears and deeper grains; perhaps a few days later in maturing than Early Adams. Shelled—Lb. 20c; 10 lbs. \$1.60.

Country Gentleman Corn

**73. Trucker's Favorite.** As name implies, this is the favorite with all market gardeners and truckers, following close to Early Adams in maturity; it is larger in ears, deeper in grain, and a sure crop; a sweet and palatable corn. Trucker's Favorite is considered the best early market corn grown. Shelled—Lb. 15c; 10 lbs. \$1.00.

**74. Kirkland's Southern Snowflake.** A beautiful large eared corn with deep soft pure white grains, almost as early as Trucker's Favorite but grains and ears larger; a very desirable market corn for main crop. Lb. 15c; peck \$1.25.

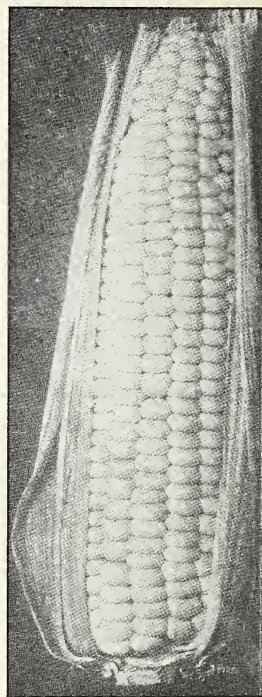
## Dill

**92. Dill.** An annual of aromatic odor and warm pungent taste. Its seeds are used for seasoning, but its largest use is for making Dill pickles. Pkt. 5c; oz. 15c; ¼ lb. 40c; 1 lb. \$1.25. Parcel post paid.

## Endive

One Ounce Will Sow 200 Feet of Drill—Sow about the middle of May, and for succession in June and July. When the plants are two or three inches high, thin them out or transplant into moderately rich and rather light soil, one foot apart. When nearly full grown, and before they are fit for the table, they should be blanching by tying the leaves loosely together.

**98. Green Curled.** The hardest variety, beautifully curled. Pkt. 10c; oz. 25c; 2 ozs. 40c; ¼ lb. 75c; 1 lb. \$2.00. Parcel post paid.



Trucker's Favorite Corn

## Pop Corn

**79. Pearl.** The most popular of all pop corns, a good yielder. Corn pops pure white and of good quality. Lb. 15c; 10 lbs. \$1.25.

**80. Queen's Golden.** A very handsome yellow pop corn, large grains; pops perfectly white, and of good flavor. Generally yields four ears to the stalk. Lb. 15c; 10 lbs. \$1.25.

## Kale

**CULTURE**—Sow from 2 to 3 lbs. to the acre, one ounce to 200 feet of drill. Make excellent greens for spring and winter use. Sow in March or September in drills or broadcast.

**96. Dwarf Green Curled.** Very hardy; leaves curled. The best variety for fall sowing. Stands all winter. Pkt. 10c; oz. 10c; 2 ozs. 15c; ¼ lb. 30c; 1 lb. 60c.

**97. Tall Curled Scotch.** A beautiful curled tall growing variety. Also fine for spring planting. Pkt. 10c; oz. 15c; 2 ozs. 25c; ¼ lb. 40c; 1 lb. \$1.00.

## Cucumbers

**CULTURE**—Cucumbers are very tender, and should not be planted until all danger of frost is past and the ground becomes warm. If planted earlier than this they should be protected. Plant in hills 4 feet apart each way. Quantity of seed required—One ounce to 60 hills; about two pounds per acre.

**83. Kirkland's Early Fortune.** A great favorite with Florida truckers, with fine dark green color, holding this color for a long time. A favorite for shipping to Northern markets. Nice, plump, crisp cucumber, with all good features for both home and shipping purposes. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00.

**84. White Spine.** A deep dark white-spine cucumber that will hold its color for a long time. This makes it a desirable shipping variety, as the color lasts several days after reaching Northern markets. This is a very early sort, and with proper cultivation will produce all perfect specimens. Our strain will be found to be satisfactory for every purpose, both for home garden and shipping. This cucumber will satisfy. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. 90c.

**85. Early Green Cluster.** Bearing in clusters of two and three. If fruit is picked will continue to bear throughout entire season. A fine deep green fruit. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25.

**86. Improved Long Green.** An old-time favorite in the South, making extra-long slim fruit that will hold color until well matured. A fine, nice brittle, well-flavored cucumber. Good for planting during all seasons of the year. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00.

**87. Japanese Climbing.** This is a climbing variety, vines attaining twice the length of the ordinary sorts. These can be trained to climb on fences or trellises, which will save space where it is limited. Fine variety for small gardens and where only a few vines are wanted. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 50c; lb. \$1.65.



Kirkland's Early Fortune

**88. Everbearing.** A fine cucumber, growing in bushy form, and a distinct kind from all others. The vine produces early, and continues to do so until very late. Full matured fruits may be seen on vine while still blossoming, but these should be picked when too old to eat. Small ones make excellent pickling cucumbers. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 35c; lb. \$1.35.

**89. Southern Pickle.** This variety has been grown and selected to produce numbers of small fruits just the proper size for pickling purposes, and when full grown are of a nice size for this purpose. This variety gives much better satisfaction than the use of immature fruits of other sorts. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.35.

**90. Gherkin, or Burr Cucumber.** Small, round and prickly; used only for pickling. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 50c. By express, oz. 15c;  $\frac{1}{4}$  lb. 40c.

**91. Stai-Green.** This is an early variety and makes long symmetrical fruit of deep green color, which it retains for a long time; considered one of the best table varieties, and is much thought of by our truckers; highly recommended. Pkt. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c.

## Egg Plant

**CULTURE**—Sow in February or March. When 2 inches high transplant to pots or good rich soil, and in May to 3-foot rows in deep, rich loam. One ounce of seed will produce 1,000 plants.



Black Beauty Egg Plant

**93. Black Beauty.** This is the earliest and best of all large fruited Egg Plants. The large fruits are thick and of the most attractive form. The skin is a rich, lustrous purplish black, and it is entirely free from spines or thorns. Pkt. 10c; oz. 50c; 2 ozs. 75c;  $\frac{1}{4}$  lb. \$1.25.

**94. New York Improved Purple.** The old standard variety. Pkt. 10c; oz. 50c; 2 ozs. 75c;  $\frac{1}{4}$  lb. \$1.25.

## Kohl-Rabi

**95. Early White Vienna.** This is the best and the earliest variety for table use. Pkt. 10c; oz. 25c; 2 ozs. 40c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50.

## Kirkland's Lettuce Seed

**CULTURE**—Lettuce is easy to grow, but requires rich, moist soil, clean and thorough cultivation and plenty of water to give it that quick-growth on which depends its tenderness and flavor. They may be had at all seasons of the year. For a succession sow every three weeks. Sowings may be made in open ground early in the spring and the plants thinned out. For fall use, sow in July and August. Fall sowings of hardy kinds should be made in September; protect with straw or litter and they will head up in the spring, or transplant 9 inches apart under glass or canvas to head up in the winter. One ounce will produce about 1,500 plants; 3 ounces will make plants enough for an acre.

**99. Big Boston.** The heads of this variety are extremely firm and solid. This fine variety is grown exclusively in some sections for shipping purposes, and has given best of satisfaction. Inside bleached fine white; very crisp and nicely flavored. Favorite shipping lettuce. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00. Special price in quantities.

**100. Iceberg.** A Winner for the Home Garden. One of the very best cabbage varieties for summer heading. Heads are so compact and solid they seldom go to seed. Inside is thoroughly blanched and of the finest flavor. Leaves broad, slightly crumpled and border finely frilled. Good for home and market garden. Crispness is retained in hottest and driest weather. Of strong growth, suitable for early and later plantings. Ready for table in 55 to 60 days. Pkt. 10c; oz. 30c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00. Special price in quantities.

**101. New York, or Wonderful.** The plants are extra large and produce heads of immense size with the leaves closely folded; inner portion blanches easily, and leaves are always crisp and tender. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 65c; lb. \$1.50.

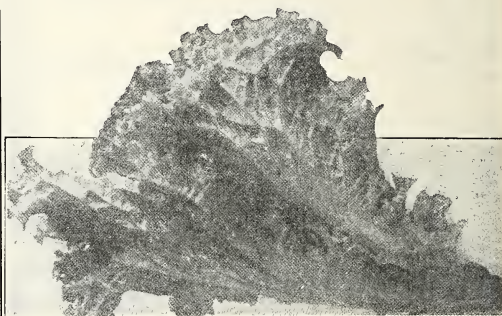
# LETTUCE SEEDS—Continued

**102. Roamine, or Cos.** Trianon is by far the best of the Cos, or Romaine varieties. These are becoming very popular; they have a distinct, pleasing flavor. The long, spoon-shaped leaves form oval-shaped heads, and are easily blanched by gathering the outer leaves at the top and loosely tying them with soft string several days before wanted for the table. Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.00.

**103. May King.** This valuable new Lettuce is, without any question, one of the best Lettuces on the list for early spring planting in the open ground. The heads are six to seven inches in diameter, of a clear light green, the outer leaves being slightly tinged with brown, the inner being clear, bright yellowish, with very rich, oily flavor. It is an excellent market sort, the round, compact heads being so solid that they carry extremely well. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.

**104. Grand Rapids.** Among the curled leaved lettuces there is no better for forcing, and it does splendidly outdoors if sown in the fall or early in the spring. It does not form heads, but makes a large compact cluster crimped around the edges; crisp and tender. One of the earliest lettuces to grow under glass. Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.00.

**105. California Cream Butter.** Good for open ground planting at all seasons in the South. Fine variety for market gardeners and shippers. Heads large and solid, the inside bleaching to a beautiful cream yellow when properly grown. The pure strain of this variety can be distinguished by the small spots on the outer leaves. Our stock is strictly high-grade and of the purest strain. Pkt. 10c; oz. 25c; ¼ lb. 60c; lb. \$2.00.



Grand Rapids Lettuce

**106. Early White Cabbage.** This is the best all-around lettuce in cultivation. Does well for early spring, summer and fall planting. Makes fine, large, solid heads with blanched hearts. Crisp and tender. Pkt. 10c; ¼ lb. 60c; lb. \$2.00.

## KIRKLAND'S SELECTED WATERMELONS

**CULTURE**—One ounce is sufficient for a row of 100 feet in hills; 2 or 3 pounds will plant an acre in hills. A rich but light and well-drained soil is needed to produce the best results. Plant the seeds 1 inch deep from April to June in hills not less than 8 feet apart each way. Avoid planting until the warm weather has become settled, as the vine will never thrive if checked by cold, and it really pays to use the seed more lavishly than indicated above. Watermelon seeds have so many enemies that defective stands are almost the rule rather than the exception, and sometimes the delay from replanting means failure of crop; no matter how many seeds are put in the hill, they should each be pushed in separately in order to guard against a bird or other destroyer making a clean sweep of the pocket. After the first plowing, cultivation must be shallow and the crop "laid by" as soon as the ground is well covered.



Kieckley Sweet

**117. Kirkland's Dixie.** The size is large, specimens weighing 50 pounds being not infrequent. The flesh is scarlet, very fine and extra firm. The rind, though thin, is a good keeping quality. One of the best shipping melons grown, often producing on a single vine 6 to 8 large oblong shaped melons, of a dark green color, striped lighter green. Black seed. Pkt. 10c; ¼ lb. 30c; lb. 90c; 5 lbs. \$4.25; 10 lbs. \$8.00.

**118. Tom Watson.** In the South there are two classes of Watermelon—first, a thin rind table melon; second, a tough rind shipping melon. Watson belongs to the latter class; and while it does not compare in quality with Kieckley Sweets, it has proved wherever shipped to be a good eating melon—in fact, superior to any other of its class. The melons measure 18 to 24 inches. Brown seeds, with green rind. Pkt. 10c; ¼ lb. 30c; lb. 90c; 5 lbs. \$4.25; 10 lbs. \$8.00.

**118½. Kieckley Sweet.** No other melon has ever attained such popularity for home use and nearby markets. This is a perfect melon for that purpose. Its eating qualities leave nothing to be desired. Vines strong and vigorous; melons medium to large in size. Oblong. The melons grow 18 to 24 inches in length; 10 to 12 inches through. Skin a very rich, dark green color; white seeds. Pkt. 10c; ¼ lb. 30c; lb. 90c; 5 lbs. \$4.25; 10 lbs. \$8.00.

**119. Georgia Rattlesnake.** This melon made Georgia famous as the finest melon-growing State. In no place in the world are finer, sweeter melons grown than the Rattlesnake. 60 to 75-pound Rattlesnake melons are nothing unusual. Light green with dark green stripes; red meat, with white seed tipped with black. Pkt. 10c; ¼ lb. 30c; lb. 90c; 5 lbs. \$4.25; 10 lbs. \$8.00.

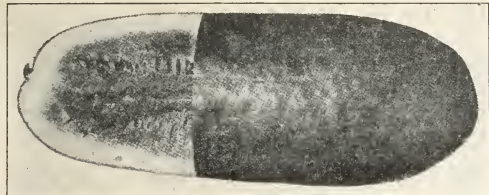
**120. Stone Mountain.** Another comparatively new variety which has met with much praise wherever grown. It is no doubt the finest, the sweetest and largest of all melons. It is almost round or square-shaped. It has a medium rind and deep pink flesh. Its large size, shape and color and delicious quality should make it outsell any other melon. Those who have tried it pronounce it the finest and sweetest flavor of them all. On account of its thin rind it will not stand long shipping, however we believe it will soon become the favorite of all for both home garden and nearby market. Pkt. 10c; ¼ lb. 30c; lb. 90c; 10 lbs. \$8.00.

**122. Florida Favorite.** This variety originated with one of the most extensive melon growers of Florida. A beautiful melon, with dark and light green exterior; shape oblong; flesh bright crimson, crisp and deliciously sweet. A good shipper. White seed. Pkt. 10c; ¼ lb. 30c; lb. 90c; 5 lbs. \$4.25; 10 lbs. \$8.00.



# WATERMELONS—Continued

**121. Halbert Honey.** A Texas melon. It greatly resembles the Kleckley Sweets, but is of darker color, more even, and regular in shape. Cannot be shipped great distances, as the rind is very brittle, but it is unsurpassed for home markets and family use. It grows from 15 to 30 inches long, is dark green, slightly ridged and blunt at the blossom and stem ends. White seeds tipped at stem with black. Pkt. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00.



Kirkland's Dixie Watermelon

**123. Irish Grey.** The size is uniform and large. Color of rind yellowish gray and almost as tough as that of the Citron. Ripens earlier than Watson and will keep in good condition for a long time after picking. Very prolific and a good shipper. A fine market sort. White seed. Pkt. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.10; 5 lbs. \$5.00; 10 lbs. \$9.00.

**124. Excel.** This is the shippers' melon. It is well adapted to Southern conditions, and for a shipping melon it can't be beat. The rind is tough, being a heavy cropper. It is a large, long dark green melon with faint stripes. Flesh, red, crisp, solid, and a wonderful medium early shipper. White, black and brown seeds. Pkt. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c; 5 lbs. \$4.25; 10 lbs. \$8.00.

**125. Kolb's Gem.** The melons are large, of a thick oval bumpy form; skin is dark and light-green stripes. Flesh bright red, but coarse and of poor quality. Splendid for shipping and keeps well. Black seed. Pkt. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**126. Mountain Sweet.** An old variety but still the standard of excellence for quality; fruit oval, long and very dark green rind; meat red, sweet, with black seeds. Pkt. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**127. Carolina Bradford.** The Bradford is one of the best melons for home use and nearby markets, but we do not recommend it for shipping long distances. It is a favorite above all others in sections where it has been grown. It makes a strong healthy vine and very productive. The melons are large, elongated; rind dark green, with darker stripe; flesh red, remarkably tender and sweet. An excellent melon for home use. White seed. Pkt. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.10.

**128. Harris Earliest.** The earliest variety grown and exceptionally large for so early a melon; handsome, uniformly of long oval shape and of first-class quality. Not only desirable for home use, but fine for shipping. Black seed. Pkt. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**129. Cole's Early.** One of the earliest, but small size. It is very prolific, producing nearly round melons with dark green rind mottled with lighter stripes. Flesh bright red and crisp. A good variety for growing in the Northern States. Black seed. Pkt. 10c;  $\frac{1}{4}$  lb. \$1.10.

# MUSKMELONS, or CANTALOUPE

One Ounce Will Plant 50 Hills; 2 or 3 Pounds in Hill per Acre

**CULTURE**—Melons thrive best in a rich, light soil. Plant early in May, when the ground has become warm and dry, in hills six feet apart each way for muskmelons, eight feet for watermelons. Previous to sowing the seed, mix a few shovelfuls of well-rotted manure in each hill, and plant in each 12 to 15 seed; after all danger of the bugs is over, thin out to three plants per hill. When about one foot long, pinch off the tips to make them branch, as it strengthens the growth of the vines and makes the fruit mature earlier. Give plenty of water and feed liquid manure occasionally. A few hills for early use may be had by sowing on pieces of sod in a hotbed, and when warm enough transplant to open ground.

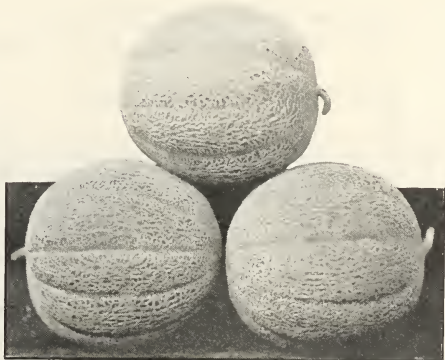
**108. Extra Early Hackensack.** Matures in 70 days; green, meat. Earliness is the feature that popularizes this melon. Size is small, about that of Rocky Ford. Its fruit is finely flavored and appetizing in looks. Is round, slightly flattened at the ends and netted. Good for shipping, especially for early market. Pkt. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**108½. Hearts of Gold. (HOODOO).** An ideal shipping melon, of very finest quality. Flesh rich orange color, very thick, firm and of delicious flavor. The seed cavity is small and the rind is very tough, making it a good shipper. A vigorous grower and a heavy cropper. Pkt. 10c;  $\frac{1}{4}$  lb. 45c; lb. \$2.00.

**109. Osage, or Miller's Cream.** A rather large, main crop, covered with a shallow, melon of very superior quality; fruit dark green, gray netting; flesh rich orange-salmon, exceedingly thick, with a small seed cavity. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c, postpaid. By express, 1 lb. 85c; 5 lbs. and over, 75c per lb.

**110. Knight.** This is a splendid shipping melon. Somewhat ear-shaped. Well netted, thick green flesh, and good quality. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.

**111. Kirkland's Improved Rocky Ford.** This new strain of Rocky Ford of ours differs from all others in that it is solidly and heavier than Rocky Ford; medium sized, uniform in size and shape of all, the melons in a well-cultivated crop being almost as nearly alike as peas in a pod. If you are a cantaloupe shipper, you know that advantage. We cannot recommend this strain of Rocky Ford too highly. For home garden it has no equal, as a shipper it cannot be beat. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.40.



Tip Top Muskmelon

**112. Honey-Dew.** Too much cannot be said for this fine melon, and we are anxious for all our customers to become acquainted with it. This is a cross between the African Cassaba and the Rocky Ford; flesh is light green and sweet honey. The rind is straw color, very smooth and hard as the rind of a winter squash. It is a good shipper, selling at from fifty cents to one dollar and fifty cents per crate more than any other melon on the market. The average size of the melon is six inches in diameter and seven to eight inches in length, weighing five to six pounds. It matures about ten days later than the Rocky Ford and is very prolific. The melons will keep for several weeks and those figuring late may be kept until Christmas. Pkt. 10c; oz. 40c; lb. \$2.00.

## Muskmelons, Canteloupes—Continued

**113. Pollock 10-25 Salmon Tinted.** The latest improved shipping type of the Rocky Ford Cantaloupe, bringing the highest prices everywhere. The flesh is of delightfully rich aromatic flavor not excelled by any other kind. This is the most rust-resistant variety known, remaining green and thrifty under favorable conditions when others die. The melons run uniform in size and shape and the flesh is unusually firm and deep, with a small seed cavity, making this an exceptionally good shipper. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.75.

**114. Banana Muskmelon.** We have the true Banana Muskmelon with its fine Banana-like flavor. Just think of melons 24 to 31 inches long! The Banana will grow and make on poorer land than any other variety and will stand summer sun without injury and furnish you melons long after all other varieties are gone. It should be in every home garden in the South, both for its fine eating qualities and for late use. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 45c; lb. \$1.75.

**115. Pink-meated Rocky Ford.** (OR BURRELL GEM). of names and is a good one for either shipping or home use. While

the meat or flesh is known as "pink-meated," in color it is really an orange-yellow. These melons are heavy in weight owing to the thick meat, which is firm and solid, more so than other varieties, and has become quite a favorite with many as a shipper. Nothing is rather coarse and prominent as compared with other Rocky Ford strains, but it is an all right melon either for shipment or home use, and is growing in popularity every season. Seed cavity is exceedingly small, with thick, firm flesh or meat of the very best flavor. The only objection to this variety is a tendency to split at blossom end in rainy weather. Genuine Rocky Ford, Colorado-grown seed. Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.10.

**116. Tip Top.** This variety has for a long time been one of the standard and popular varieties. Probably no other melon is more universally used than Tip Top. It is not a good shipper but for home use or nearby markets is a good one, having a delicious flavor, well netted, slightly oval thick orange-color flesh, is very juicy and grows very large. We saw some melons last year weighing ten to fifteen pounds, and selling for as much as 60c to 75c. We are quite sure of our strain this year. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; 1 lb. 90c.

## Onions

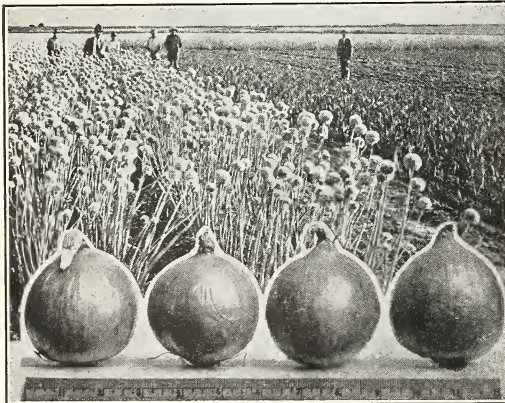
**CULTURE**—Onions are grown from seeds and also from bulbs, called Sets. To grow onions from seed, plant in the open in early spring rather thickly,  $\frac{3}{8}$  inch deep in rows 18 inches apart, and later thin the plants to from 3 to 5 inches apart, and keep well cultivated. When grown this way 1 ounce of seed will sow 100 feet of row; 6 pounds to the acre. If Sets for planting the following spring are desired, sow the seed in March or April in wide rows, 20 to 40 pounds to the acre. When the tops die in the summer remove and store only the small Sets, spreading them thinly in a dry place, using the larger size for eating or pickling purposes. Onions require rich soil, and a liberal supply of manure from the poultry-house is very beneficial. But probably the most satisfactory way for the small home-gardener to grow early green onions is from the Sets. These may be put out in the spring, in March or April or in the fall, in September and October, 3 inches apart in rows 1 foot or more apart. One pound will set about 75 feet of row. Fertilize well and keep well cultivated.

**Growing Onion Sets from Seed**—To grow onion sets, sow in broad, wide rows, in March or early in April, 40 to 50 pounds per acre, and keep clean of weeds. In late summer, or whenever the tops die, remove the bulbs, buttons or sets, to a dry place, spread them out thinly on trays made of laths, piling the trays one on top of another, separated by blocks, so that the air can circulate freely between them. The larger sets should be sold for pickling, and only the smallest retained for planting.

**130. Large Red Weathersfield.** Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**131. Silver Skin, or White Portugal.** Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c, postpaid.

**132. Yellow Globe Danvers.** Pkt. 10c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00.



Mountain Danvers Onions

**133. Extra Early White Pearl.** Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c.

**134. Prize Taker, or Spanish King.** Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.60, postpaid. Not prepaid, lb. \$2.50.

## Onion Sets

Prices on Onion Sets Fluctuate. Current Prices on Request.

**135. Yellow Danvers.** Qt. 25c; peck \$1.00; bushel of 32 lbs. \$3.00.

**136. Red Weathersfield.** Qt. 25c; peck \$1.00; bushel of 32 lbs. \$3.00.

**137. Silver Skin.** Qt. 25c; peck \$1.50; bushel of 32 lbs. \$4.00.

**138. Australian Brown.** Qt. 25c; peck \$1.00; bushel of 32 lbs. \$3.00.

## Onion Plants

CRYSTAL WAX, YELLOW BERMUDA, AUSTRALIAN BROWN, PRIZETAKER. 30c per 100, postpaid. \$1.50 per 1,000, postpaid.

## Mustard

**CULTURE**—Sow in any good garden soil thickly in drills 14 to 16 inches apart. Give good cultivation and keep free from weeds and grasses. Mustard leaves are large enough for salad in about four weeks from sowing, and may be cut. Sow seed from January to April and in early fall.

**139. Chinese Mustard.** We have sold this variety for years and it has always given complete satisfaction. Leaves are about twice as large as those of the Southern Curled, and are smoother. Leaves remain tender and in condition for a long time. Pkt. 10c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c.

**140. Giant Southern Curled.** This is an old and well-known variety, used in the South for years. Is used for salads, like lettuce, and for boiling. Leaves are a beautiful green and are very crinkly or curled. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 75c.

**141. White Mustard.** The seed of this variety are used for medicinal purposes and for making commercial mustard as sold by grocers; also used in pickling. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 75c.

**142. Ostrich Plume.** This is an extremely curled variety of medium growth, making the finest quality salad. Pkt. 10c; oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 75c.

## Okra

DWARF GREEN PROLIFIC OKRA

**143. White Velvet Okra.** A standard variety throughout the South for home use and local shipment. We have a specially fine, early, very round, smooth-podded strain of medium size, the pods being almost altogether free from ridges and is not prickly to the touch. This strain of the White Velvet we find to be the very best of all the white varieties. Pkt. 10c; oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 50c.

## Okra (Continued)

**144. Coker's Pedigreed Okra.** This distinct green-podded Okra is by far the best variety for market and shipping purposes, being used by many Southern truckers almost exclusively for this purpose. The original strain as originally introduced has been greatly improved, and its productiveness is simply wonderful, the pods starting to shoot out within 3 or 4 inches from the bottom of the stalks, and the whole plant is covered with them to the height of a man's head (5 to 6 feet). Pods of an intensely dark green color, of unusual length, frequently 9 to 10 inches long. Are very slim and do not harden up as is usually the case with other varieties. Pkt. 10c; oz. 10c; ¼ lb. 25c; lb. 90c.

**145. Dwarf Green Prolific.** The pods impart fine flavor and consistency to soups and stews, besides being very palatable when stewed and served like a dish of Asparagus. Its pods can be easily dried for winter. So delicious is the flavor that when once used it will be grown every year in Northern as in Southern gardens. Pkt. 10c; oz. 15c; ¼ lb. 20c; lb. 50c.

**146. Improved Long Green.** A very desirable sort for market gardeners, of medium height; very handsome; bears long pods, which remain tender a long time and are free from hard ridges. Pkt. 10c; oz. 15c; ¼ lb. 20c; lb. 50c.

## Parsley

**CULTURE**—A fine garnishing plant. Easy to grow. Should be sown both in fall and early spring in thin drills about 15 inches apart. Can also be grown in pots for home use where the demand is light. Makes a fine market gardener's crop. Always a good demand for this from hotels and restaurants.

**198. Special Double Curled Moss.** A fine strain, double curled, that makes about the best appearance of any variety. Easy to grow and the best popular kind. Pkt. 10c; oz. 15c; ¼ lb. 30c; lb. 90c.

## Pumpkins

**CULTURE**—Plant in May, in hills 8 to 10 feet apart, mixing well-rotted manure in each hill. Put 8 to 10 seeds in each hill, and cultivate till the vines get strong, when they should be thinned out, leaving two or three of the strongest in each hill. When planted in corn plant at the same time as the corn, in every fourth row, 10 to 12 feet apart in the rows, letting the hill of pumpkins take the place of a hill of corn. One ounce will plant 20 hills; three pounds one acre.

**149. Japanese Pie.** A long-necked pumpkin, green and yellow striped; a fine pie pumpkin. Pkt. 10c; oz. 20c; ¼ lb. 40c; lb. \$1.25.

**150. Southern Field.** Famous old-time pumpkin; strong, vigorous grower. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

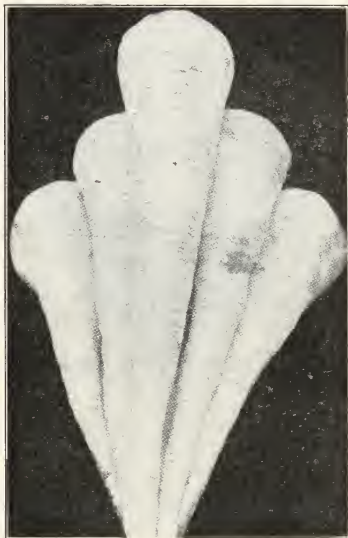
**151. Jumbo.** A large, round yellow pumpkin, attaining an enormous size. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.85.

**152. Large Cheese.** Old-time favorite and a good variety; bright orange color. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.25.

**153. King of the Mammoths.** An immense variety that will always take the prize for the largest pumpkin, an excellent keeper, of golden yellow color. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.75.

**154. Cushaw, or Crookneck.** A fine table pumpkin, and also good for stock; flesh rich yellow and very tender, with finest flavor; the regular Pie Cushaw. Pkt. 10c; oz. 25c; ¼ lb. 50c; lb. \$1.50.

**155. Sugar, or Pie Pumpkin.** Not a very large pumpkin but of very sweet meat; flesh orange color, fine-grained and excellent keeper. Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.25.



Hollow Crown Parsnips

## Parsnips

**CULTURE**—These seed should be sown in rows about 2 feet apart in the early spring and in early fall. One ounce of seed to 100-foot row.

**147. Hollow Crown.** This is the best variety for the South and is most generally used in this section. Makes a fine-flavored, sweet bulb with little tops. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. \$1.00.

**148. Guernsey.** This fine strain of parsnip, while not so long as the Hollow Crown, is thicker at the top. Of the best quality, and is preferred by many on account of the ease with which the crop can be gathered. Oz. 10c; ¼ lb. 35c; lb. \$1.00.

## Leek

**CULTURE**—Leek is generally considered superior to onions for soup-flavoring, etc. Sow as early as practicable in the spring in a light, rich, moist soil in drills half an inch deep. When six or eight inches high, trim off the tops and roots, and transplant to rows one foot apart and six inches apart in the row, setting them three or four inches deep and earthing up as they grow, so that the necks will become well blanched. May also be sown in cold-frames in September, and the young plants transplanted in the fall or early spring to where they are to remain. One ounce will sow about 100 feet of drill.

**107. Large American Flag.** This is the standard variety generally used. Pkt. 5c; oz. 25c.

**FREE DELIVERY** — Packets, or quarter-Pounds of all seeds excepting Beans, Corn, and Peas ordered at list prices will be sent FREE by mail or express.



# KIRKLAND'S GARDEN or ENGLISH PEAS

## For Spring Planting—Best Southern Varieties

**CULTURE**—Peas do best in a light, rich, loamy soil that has been liberally manured the previous season. Plant the smooth varieties as early as the ground can be worked. The wrinkled peas are not as hardy as the smooth kinds, and should be planted later; they are, however, sweeter and better flavored. For a succession plant every two weeks—as late as August for a late crop. The Marrowfat planted in November, December, or January will come in just after the extra earlies. When grown for market, peas are rarely staked; in small gardens grow in double rows 6 to 8 inches apart and stake with brush. They should be kept clean and the earth worked toward them two or three times during growth. One quart will plant 100 feet of drill; 1½ bushels for an acre.

**179. First and Best.** Our best early pea for the South, for either home use or for the market. This pea will excel where an extremely early pea is wanted. For years this pea has held the record for earliness and prolificness, being used to a large extent by Florida shippers. Will quite often bear in thirty days' time from planting. Pkt. 10c; lb. 30c; peck \$2.75; bushel \$9.00.

**180. Alaska Extra Early.** Next to First and Best, we consider this pea to be the best early pea planted. Bears in about five weeks. A splendid shipper and very prolific sort. Pkt. 10c; lb. 30c; peck \$2.50; bushel \$8.50.

**181. Ameer, or Large-Podded Alaska.** Similar to the Alaska Extra Early, only a little later and making a larger pod and peas. A fine kind to follow the first earlies. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**182. Thomas Laxton.** A heavy and reliable cropper, bearing uniform, long, straight and green pods, with 6 to 8 peas; a heavy vigorous grower, vines reaching a height of about 3 feet; almost as early as the extra-early kinds. Pkt. 10c; lb. 30c; peck \$2.75; bushel \$9.00.

**183. Laxtonian.** A dwarf pea with large handsome pods. It is slightly earlier than Gradus maturing about the same time as Thomas Laxton. Vines medium dark green and medium heavy foliage. Pods 3½ to 4 inches long, slightly curved. Will bear more abundantly at top of vines, making it easy to pick, very heavy yielder, altogether a fine pea for private and market gardeners. Pkt. 10c; lb. 30c; peck \$2.75; bushel \$9.00.



Thomas Laxton Peas

**185. White Marrowfat.** A big yielder for late summer and last crop. Pkt. 10c; lb. 25c; peck \$3.00; bushel \$12.50.

**186. Black-eye Marrowfat.** Grows from 3 to 5 feet high and an excellent variety for late crop. Pkt. 10c; lb. 25c; peck \$3.00; bushel \$12.50.

**187. Telephone.** One of the most productive of the large-podded wrinkled sorts, pods large and well filled, usually about 5½ inches long. This is a rather late pea, but a heavy sure cropper, and should have its place when planting for continued production during bearing season. Pkt. 10c; lb. 30c; peck \$3.50; bushel \$12.00.

**188. Gradus, or Prosperity.** Vines grow about 3 feet high, producing uniformly large pods, about 4 inches long; very prolific bearer and good sure cropper. Recommended highly for earliness, quality and size. Pkt. 10c; lb. 30c; peck \$3.00; bushel \$11.00.

**189. Champion of England.** Universally admitted to be one of the best late peas grown. Makes large, tender, luscious peas, pods about 3 inches long; very profuse bearer. Pkt. 10c; lb. 30c; peck \$2.75; bushel \$9.00.

## Mammoth Luscious Sugar Pea

(EDIBLE PODDED)

**190. Dwarf and Tall.** We list two edible-podded kinds, the Dwarf Grey and the Tall Mammoth-Podded. When these peas have reached about half their mature size they are picked and cooked, pods and all, just as you would string snap beans. This is a most delightful dish. Pkt. 10c; lb. 40c.

**184. Pot Latch.** Strong vigorous, luxuriant dark foliage, 24 inches in height, bearing pods 3½ to 4 inches long, pointed at ends, of medium green color, filled with luscious, large tender peas. Pkt. 25c; lb. 30c; peck \$3.25; bushel \$10.00.

**191. Small White Lady Pea.** Pkt. 10c; lb. 25c; 2 lbs. 45c.

**192. Large White Black-eye, or Ramshorn Pea.** Pkt. 10c; lb. 25c; 2 lbs. 45c.



## Peppers

**202. Pimento Pepper.** A great mild-flavored variety, the favorite for salads. This is practically a new variety in our country, but one that has been grown in Spain for years, and from which the famous Spanish Pimento is made. The flavor is almost as mild as that of an apple; can be eaten raw, baked, stuffed or canned and used as a salad. The skin can be removed by scalding. This superb variety should be grown in every Southern garden, for it fills a place all its own that other peppers cannot. Pkt. 10c; ½ oz. 35c; oz. 50c; ¼ lb. \$1.50.

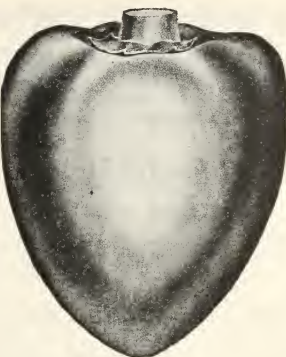
**203. Chinese Giant.** The fruits of this variety are mammoth, averaging 12 to 15 inches in circumference, and notwithstanding the immense size, it is early and prolific; the stocky, well-branched plants, about 2 feet high, carry a large crop of most attractive peppers. The flesh is thick, tender, mild, sweet and unexcelled for use as salad or for stuffing for "Mangoes." When ripe the surface is of a brilliant, glossy scarlet. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.40; lb. \$4.50.

**204. Ruby King.** One of the most popular large-fruited peppers, bearing a liberal crop of large ruby-red fruits, 5 to 6 inches long by 3 to 4 inches in diameter; flesh exceedingly thick, sweet and mild. It is a favorite sort for use as salad stuffing, etc. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.40; lb. \$4.50.

**205. Ruby Giant.** A grand, large, sweet pepper, growing to an extra-large size and very mild flavored; mild enough to be eaten raw. Flesh very thick and bright, ruby-red when thoroughly ripe. Great favorite with market gardeners and truckers. Good for stuffing. Best seller grown. Pkt. 10c; ½ oz. 25c; oz. 40c; ¼ lb. \$1.40; lb. \$4.50, postpaid.

**206. Long Red Cayenne.** Very hot; is used for pickling while green and for seasoning when dry. A long, tapering variety. Pkt. 10c; ½ oz. 30c; oz. 65c; ¼ lb. \$1.50; lb. \$5.50.

**201. Large Bell, or Bull Nose.** This is an old and well-thought of standard variety both for home and market gardeners; as a standard variety, fruit is about 3 to 3½ inches long and 2 to 3 inches across; inclined to be a little flat. Pkt. 10c; ½ oz. 15c; oz. 30c; ¼ lb. \$1.00; lb. \$3.25.



## OTHER VARIETIES

	Pkt.	Oz.	¼ Lb.	Lb.
Red Chili Pepper.....	10c	50c	\$1.50	\$5.00
Tabasco .....	10c	50c	1.50	5.00
Golden Dawn .....	10c	50c	1.50	5.00
Neopolitan .....	10c	50c	2.00	7.00
Mixed Peppers .....	10c	50c	1.50	5.00
Sweet Spanish .....	10c	50c	2.00	7.00

## Kirkland's Maine-Grown Seed Potatoes

Write for Current Prices.

Selected Seed Stocks, grown especially for seed purposes, by the best and most careful seed potato grower in Aroostook County, Maine. Purity and quality considered before price.

Prices on Potatoes fluctuate, and are subject to market changes.

**Bug Death.** Is the sure-shot potato-bug killer; will positively kill all kinds of leaf-eating insects. Sprinkle on the plants while the dew is on, and by applying a few times all bugs will be killed out. Not poisonous to humans, and will not kill plants. 1 lb. 30c to First and Second Zones; 3 lbs. 75c—add regular postage to other Zones if to be mailed. Not prepaid, 1 lb. 25c; 3 lbs. 45c—Express collect.

**193. Irish Cobbler.** A fine, very prolific, oblong white potato; a well-known variety that is planted largely throughout the South. Peck 65c; bushel \$1.90; 10-peck bag \$3.00. Price subject to change. Write when ready to buy.

**194. Bliss Red Triumph.** A potato too well known for description. We have the genuine Maine grown potatoes, grown by the best growers in the business; free from disease and the best to be had in every respect. Peck 75c; bushel \$2.00; 10-peck bag \$3.50. Price subject to change without notice.

**195. Early Rose.** The genuine Early Rose, and not to be compared with Western stocks, as it is much earlier, more prolific, and a better potato in every respect. Peck 75c; bushel \$2.00; 10-peck bag \$3.50.

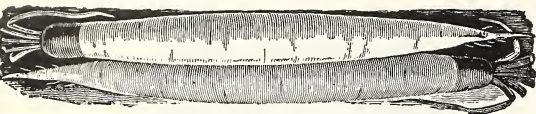
**196. Lookout Mountain.** The wide popularity of Lookout Mountain is due to its heat and drought resistant quality which enables it to withstand a hot and dry season and yet make a satisfactory crop during the cooler weather of the fall. Among late potatoes there is probably no variety that is a surer cropper than Lookout Mountain and the potatoes are generally of good size, smooth, oval in shape with white skin. Not prepaid, ½ peck 40c; peck 75c; bushel \$2.00; bag (10 pecks) \$4.00.

**197. Green Mountain.** (NORTHERN GROWN.) Has the reputation of making big crops everywhere and on practically any kind of soil, producing large, handsome, smooth, oval-shaped potatoes with white skin. The tubers generally run uniformly large with very few small potatoes, especially if grown on good ground. Medium late in maturity; not susceptible to disease; a uniform producer and of the finest table quality. Not prepaid, ½ peck 40c; peck 75c; bushel \$2.00; bag (10 pecks) \$3.50.



Irish Cobbler Potatoes





Mammoth Sandwich Island Salsify

## Salsify

(Oyster Plant)

**CULTURE**—A vegetable which ought to be more cultivated than it is. It should be sown in the fall of the year, not later than November. The ground ought to be manured the spring previous, deeply spaded, and well pulverized. Sow in drills about 10 inches apart, thin out to from 4 to 6 inches in the rows.

**177. Mammoth Sandwich Island.** A great improvement over the old sort, growing double in size. Pkt. 10c; oz. 20c; ¼ lb. 45c; ½ lb. 85c; lb. \$2.75.

**178. Sorrel.** Planted in drills a foot apart during the fall of the year and thinned out from 3 to 44 inches in the drills. It is used for various purposes in the kitchen; also in soups and salads. Cooked like spinach. Pkt. 10c; oz. 25c; ¼ lb. 75c, postpaid.

## Squash

**CULTURE**—Should not be planted until after frost and cold nights have passed. One ounce to 25 hills is about right. Plant in well-enriched soil and keep free from bugs.

**171. Early White Bush.** A large white bush variety, scalloped edged flat and greenish-white color; very fine. Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.50.

**172. Mammoth White Bush.** Same as the Mammoth, only smaller and earlier. Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.50.

**173. Early Yellow Bush Crookneck.** Same shape as the Yellow Summer Crookneck variety, growing in bush form. Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.75.

**174. Giant Summer Crookneck.** A fine crookneck squash, very prolific and a good sure cropper. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.85.

**175. Yellow Summer Crookneck.** Earlier than the Giant Crookneck, same shape, but smaller. Pkt. 10c; oz. 20c; ¼ lb. 45c; lb. \$1.75.

**176. Boston Marrow Squash.** Running squash, planted in late summer for winter use same as pumpkins. Pkt. 10c; oz. 15c; ¼ lb. 40c; lb. \$1.50.

## Herbs

	Pkt.	Oz.	¼ Lb.	Lb.
ANISE—Seeds used for flavoring.....	10c	15c	40c	1.50
BASIL SWEET—Culinary herb used for flavoring soups, etc. ....	10c	30c	85c	3.00
CARAWAY—Cultivated for its seeds.....	10c	15c	40c	1.50
CATNIP—Leaves are used for seasoning.....	10c	30c	85c	3.00
CORIANDER—Seeds are used for flavoring.....	10c	15c	40c	1.50
DILL—Mammoth. For sowing. Seeds used for flavoring vinegar.....	10c	15c	40c	1.50
FENNELL FLORENCE—Grown for the enlarged leaf stalks.....	10c	25c	85c	3.00
FENNELL SWEET—Leaves used in sauce.....	10c	25c	85c	3.00
LAVENDER—True. For oil and distilled water.....	10c	50c	1.35	5.00
MARJORAM—Sweet. Is used for seasoning.....	10c	50c	1.35	5.00
SAGE—Broad-Leaf—A culinary herb; also used in medicine.....	10c	50c	1.35	5.00
SUMMER SAVORY.....	10c	25c	85c	3.00
THYME—Broad-leaved English. Is used as a seasoning.....	10c	50c	1.35	5.00

## Spinach

**CULTURE**—Two ounces are sufficient for 100 feet of drill. For an acre 5 to 10 pounds, if planted in rows 18 inches apart, or 20 to 35 pounds if planted in ten-inch drills on beds that are usually either 4 or 7 feet wide. The latter is the method employed by our largest growers of spinach. As spinach cannot be grown upon poor land, manure heavily and trench deeply, liming being usually advantageous. For early use, sow from the middle of August until the middle of November, in drills not more than 1 inch deep. Although there is considerable danger of failure to get a "stand" if the weather is very warm, spinach being a cold-weather plant, there is no other way of having it ready for use in December. The main crop should be sown during October, about the middle of the month if conditions are favorable. When the plants are started, begin thinning out until they are from 4 to 6 inches apart. For summer use, sow in intervals from February to April, after which all kinds except the New Zealand rapidly run to seed.

**199. Bloomsdale Savoy.** A fine crinkly leaved variety in much demand; makes very fine salad. Pkt. 10c; oz. 15c; ¼ lb. 25c; lb. 65c.



Bloomsdale Savoy Spinach

**200. New Zealand Spinach.** The best summer variety, growing during all hot summer weather and dying down after frost; bears leaves in rosettes, which are picked off to be cooked. Will continue to produce all during season. Pkt. 10c; oz. 20c; ¼ lb. 50c; lb. \$1.50.

**201. Improved Curled Long-Standing.** The foliage is dark green leaves are of the finest quality. It is in prime condition from two weeks to three weeks after other varieties of spinach have run to seed. Oz. 10c; ¼ lb. 25c; lb. 65c.

## Eat What You Can and What You Can't Eat Can

See our pages on Canning Supplies. NEW THIS YEAR—The NATIONAL Canner. This outfit works as well as any canning machine on the market and will can seal pint, quart, 2½ lbs. and 1 lb. cans with the same machine. Price only \$10.00. No one can afford to be without this machine if you can any at all. Send for complete booklet.



Scarlet Turnip White-Tipped Radish

## RADISH

**CULTURE**—For best results require a loose, rich, moist soil. Can be sown during all spring and summer and during early fall, the long varieties being best for summer plantings, as they reach moisture better than the turnip kinds.

**208. Early Long Scarlet.** Flesh very crisp and tender; bright scarlet color; long, tapering shape. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 90c.

**209. French Breakfast.** A very tender half-long variety of fine flavor. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 90c.

**210. China Rose Winter.** A fine winter radish, most popular variety grown; deep scarlet, pure white inside flesh. Pkt. 10c; oz. 15c; ¼ lb. 35c; lb. 90c.

**211. Early Scarlet Turnip, White Tipped.** One of the best early radishes for the home garden and a great favorite in large markets for early planting outdoors. It is but little later than Early Scarlet Turnip, White Tipped, Forcing and will give entire satisfaction where extreme earliness and small tops are not the chief considerations. The roots are nearly round, slightly flattened on the underside. The color is very bright, deep rose-carmine scarlet with a distinct white tip. The flesh is white and of the best quality. The stock we offer is exceptionally attractive in its splendid coloring. The scarlet is unusually deep and affords a distinct contrast with the large, clear white tip. Pkt. 10c; ¼ lb. 40c; lb. \$1.25.

**212. White Icicle.** Matures in 30 days. A long white variety. Skin is white and smooth, almost transparent; meat is crisp and without core. Will hold ten days without becoming pithy. A favorite for home use or market. Pkt. 10c; oz. 15c; ¼ lb. \$1.25.

**213. Large Black Spanish.** Matures in 70 days. Grayish-black skin; white meat. Extremely hardy and remains crisp in the ground longer than other varieties. Flavor is distinctive. Pkt. 10c; oz. 15c; ¼ lb. \$1.25.

## RHUBARB

One Ounce of Seed Produces 500 Plants.

**214. Victoria.** Very familiarly known as the Pie Plant. The foot stalk is the portion that is used and is the first vegetable of the season from the garden; cultivated to a great extent and is indispensable wherever it is known. Sow the seed early in the spring in rows 1 foot apart on rich ground; the second year after planting they can be removed in autumn to the permanent spot allotted to them; plant the roots 2 feet apart each way in ground that is well enriched at least 2 feet deep. Pkt. 5c and 10c; oz. 15c; ¼ lb. 30c; lb. \$1.00. Roots, \$1.00 per dozen—add 25c per dozen if sent by mail; \$7.00 per 100. Express collect.

## TURNIPS

One Ounce for 200 Feet Drill

**CULTURE**—They do best in highly enriched, light, sandy or gravelly soils. Commence sowing the earliest varieties in April in drills from 12 to 15 inches apart, and thin out early to 6 or 9 inches in rows. For a succession sow at intervals of a fortnight until the last week in July, from then until the end of August sowing may be made for the fall and main crop. Turnips may be preserved until spring by cutting off the tops about 1 inch from the bulb, storing in the cellar or cold shed during the winter, covering the roots with dry sand. They should be harvested before the severe frost sets in, for, though comparatively hard, few will survive the winters of the Northern States in the open ground.

**161. Golden Ball, or Orange Jelly.** One of the sweetest flesh yellow Turnips yet introduced; not of large size, but firm, hard, and of excellent flavor; good keeper and superior table variety; of bright golden orange color. Pkt. 10c; ¼ lb. 20c; lb. 65c.

**163. Purple-Top Globe.** Makes large globe-shaped roots with purple top. A big yielder and fine for home use and the market. Pkt. 10c; oz. 10c; ¼ lb. 25c; lb. 60c.

**165. Southern Snow-White Globe.** A very superior white round-globe turnip; flesh firm and solid. Pkt. 10c; oz. 10c; ¼ lb. 25c; lb. 60c.



**166. Extra-Early White Egg.** A quick-growing white egg-shaped variety with small tops; a fine early variety that always satisfies. Pkt. 10c; oz. 10c; ¼ lb. 20c; lb. 50c.

**167. Yellow, or Amber Globe.** A fine yellow-fleshed variety, round and very sweet; one of the best yellow kinds. Pkt. 10c; oz. 10c; ¼ lb. 20c; lb. 50c.

**168. Seven Top.** The great salad or greens variety. Makes an abundance of tops that make finest turnip salad. Very rank grower; bulbs are often large enough to eat, but this is primarily a salad variety; very hardy. Pkt. 10c; oz. 10c; ¼ lb. 20c; lb. 50c.

**169. Yellow Purple-Top Aberdeen.** An old standard variety, well known and very popular large yellow globe with purple top; fine keeper and good for stock feed. Pkt. 10c; oz. 15c; ¼ lb. 20c; lb. 50c.

**170. Improved Purple Top Yellow Rutabaga.** Finely bred strain. Pkt. 10c; oz. 10c; ¼ lb. 25c; lb. 60c.

### Other Well-Known Varieties Are

- 156. LONG WHITE COW HORN. Oz. 10c; ¼ lb. 20c; lb. 50c.
- 157. EARLY FLAT WHITE DUTCH. Oz. 10c; ¼ lb. 20c; lb. 50c.
- 158. PURPLE TOP STRAP LEAF. Oz. 10c; ¼ lb. 25c; lb. 50c.
- 159. WHITE MILAN. Oz. 20c; ¼ lb. 40c; lb. \$1.00.
- 160. PURPLE TOP MILAN. Same as the white.
- 162. SOUTHERN PRIZE. ¼ lb. 20c; lb. 50c.
- 164. POMERANIAN WHITE GLOBE. Oz. 10c; ¼ lb. 20c; lb. 50c.

### FREE DELIVERY

Packets, Ounces or Quarter-Pounds of all seeds excepting Beans, Corn and Peas ordered at list prices will be sent FREE by MAIL or Express.



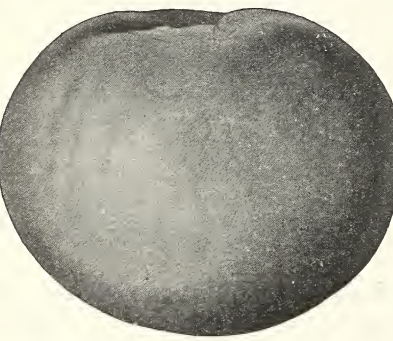
# KIRKLAND'S TOMATO SEED

**CULTURE**—Sow in hotbeds or shallow boxes in the house early in the spring, transplanting in the beds to promote root growth, and when danger of frost is over, set 3 or 4 feet apart outside. Expose to the air as much as possible to harden them, and water freely when transplanting, shading them in a few days from the sun until thoroughly established. Earliness may be promoted by growing in pots, shifting to larger size as they become filled with roots. Earlier fruits may also be had by allowing only the original stem to bear. If the plants are staked, they may be grown closer together and produce more perfect fruits.

**215. Brimmer Tomato.** A large variety, of fine quality, very early, solid, productive, and attractive in all respects. Pkt. 10c; oz. 35c; ¼ lb. \$1.50; lb. \$4.00.

**216. June Pink.** Considered an improvement on Earliana. Extra early with beautiful pink color. Medium size, smooth and prolific. Pkt. 10c; oz. 25c; ¼ lb. 65c; lb. \$2.00.

**217. Matchless.** One of the best main crop tomatoes. Very solid; few seed; large smooth fruit. As a main crop, it is unsurpassed. Pkt. 10c; oz. 20c; ¼ lb. 60c; lb. \$2.00.



Kirkland's Marglobe Tomato

**218. Earliana. (SPECIAL STRAIN).** A standard extra-early variety. Largely grown by market gardeners. Bright red, smooth & attractive in appearance. Pkt. 10c; oz. 25c; ¼ lb. 80c; lb. \$2.50.

**219. Yellow Pear.** Small pear-shaped variety, used for preserving. Pkt. 10c; oz. 35c; ¼ lb. \$1.15; lb. \$3.75, postpaid. By express, oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

**220. Bonnie Best.** Early, smooth, bright red tomato. Medium in size. Uniform and attractive. Growing in favor for market and home use. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.00.

**221. Kirkland's Avon Early.** The fruits are large for so slightly flattened, deep scarlet red color, smooth, free from cracks and of fine quality. It produces ripe fruit as early as Earliana and continues to yield marketable fruit for a longer period than the other first early varieties. The vines are vigorous and very productive. We consider this a valuable addition to the list of early tomatoes for the market or home garden. Pkt. 10c; oz. 30c; ¼ lb. 75c; lb. \$2.50.

**222. John Baer.** An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are also most attractive in color. They are nearly round, smooth, firm, and of excellent quality. It is one of the very earliest to ripen its first fruits and it continues to furnish marketable fruits much longer than other very early varieties. It is an invaluable sort for market gardeners, shippers and canners. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

**223. Matchless.** Is a well-named variety that has been known for years as being one of the best main-crop tomatoes. Pkt. 10c; oz. 25c; ¼ lb. 65c; lb. \$2.00.

**223½. Marglobe Tomato.** Marglobe was primarily bred to produce a wilt-resistant, globe-shaped red tomato. The results have exceeded expectations. It is hardy, wilt-resistant and appears to be destined to command a leading place in districts where wilt is prevalent. Will undoubtedly prove equally desirable wherever a red tomato of superior quality is desired. It is a midseason variety, ripening its first fruits in from ninety to ninety-five days. The plant is vigorous without being spreading or coarse, with a strong, hardy stalk and abundant foliage. The foliage is medium dark green, slightly crimped or savoyed and furnishes adequate cover for the fruits without too much shade. The plant produces fruit abundantly, the heaviest setting being in the center of the plant. The fruits are quite large, averaging 1½ ounces in weight, and are nearly perfect spheres with but little depression at the stem end. They show very little tendency to crack but ripen up perfectly. They are a deep scarlet in color and present a very attractive appearance. The flesh is firm, thick, of first quality, and is only mildly acid. This is a superior sort for both table use and canning. Pkt. 10c; oz. 50c; ¼ lb. \$1.00; lb. \$3.50.

**224. Stone.** A great late crop tomato; color bright red; a good shipper and a well-known variety. Pkt. 10c; oz. 30c; ¼ lb. 65c; lb. \$2.00.

**224½. Marvel.** Pkt. 10c; oz. 50c; ¼ lb. \$1.50; lb. \$5.50.

**225. Ponderosa Tomato.** The largest and best known to-day. Makes large slicing tomato. Pkt. 10c; ½ oz. 30c; oz. 50c; ¼ lb. \$1.00; lb. \$3.50.

**225½. Norton Wilt Resistant.** This variety is widely used by commercial canners, because of its wilt resistant qualities. This strain was developed from the Stone, which has long been the main canning variety. In some sections this variety is used almost exclusively by canners. The stock we are offering this year was produced by a very reliable grower, and can highly recommend it, as being genuine Norton. Pkt. 10c; oz. 30c; ¼ lb. \$1.00; lb. \$3.50.

**226. Early Acme.** A purplish, round, heavy-fruited tomato, sorts grown. Has few seed and very thick meat; a good canner. Pkt. 10c; oz. 35c; ¼ lb. 85c; lb. \$3.00.

**227. Chalk's Early Jewel.** One of the best extra-early tomatoes; fruits are large for an early kind; seed cells small, solid and meaty; a good all-round early tomato that always pleases. Pkt. 10c; ½ oz. 25c; oz. 45c; ¼ lb. \$1.00; lb. \$3.50.

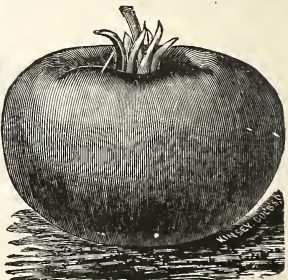
**228. Golden Queen Tomato.** A bright yellow variety, and about the best yellow tomato planted; good for table use, canning and for all other purposes. Pkt. 10c; ½ oz. 20c; oz. 35c; ¼ lb. \$1.00; lb. \$3.00.

**228½. Norduke.** Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

**229. Blight-Proof Tomato.** No chance for "Die Back" or Tomato "Blight" now to ruin your tomato crop if you plant seed of our new "Blight-Proof" selection. This is the only blight-proof tomato of extra-fine quality that has ever been offered. Fine flavor, beautiful appearance, extra hardy; fruits from early in the season until very late; it could almost be called "Ever-bearing." Very prolific, and the fruit is of the best average size for shipping. Our tomato specialist has been breeding and re-selecting this strain for several years. Though it has shown up fine for the past two years, we would not offer it until it could be called the absolutely perfect blight-proof tomato. Pkt. 10c; oz. 35c; ¼ lb. \$1.00; lb. \$3.50.

**230. Dwarf Champion.** A bushy sort, making fine fruit and self-supporting; good quick producer. Pkt. 10c; ½ oz. 25c; oz. 45c; ¼ lb. 85c; lb. \$3.25.

**231. Redfield Beauty.** A great main-crop tomato, and one of the best canners planted; has high acid content, making it a good keeper when canned. Pkt. 10c; ½ oz. 30c; oz. 50c; ¼ lb. \$1.00; lb. \$3.50.



# KIRKLAND'S FLOWER SEEDS

Our flower seed list comprises the best selections of all standard varieties of flowers usually found in the garden, and all varieties listed here are popular and are deserving of a place in every flower garden. The letter "A" after the name of the flower indicates that the flowers are annuals, blossoms only the first year, and the seed should be planted each year. The letter "P" indicates that the variety is a perennial, and blossoms for several years after sowing.

**AGERATUM (A)**—A beautiful hardy annual. The flowers are borne in dense clusters and are very useful for bouquets. The plants are very attractive in the garden, being covered with bloom nearly all summer.

Mixed Colors—Pkt. 10c.

**SWEET ALYSSUM (A)**—A hardy annual which begins to flower when very young, and is literally covered almost all the season with its sweet white flowers. It is especially adapted to borders or for rock work. Pkt. 10c.

**ANTIRRHINUM**—Snapdragon (A)—Well known showy and useful border plants, producing flowers of a great variety of brilliant and handsome colors. Pkt. 10c.

**ASTERS (A)**—These well-known, beautiful and popular annuals are very desirable for bedding. Pkt. 10c.

**VICTORIA**—The most popular variety of Asters and very desirable for bedding, and useful for cut flowers and baskets. In separate colors, pink, white, and blue, per package, 10c; mixed colors, per package, 10c.

**BALSAM**—Touch-Me-Not (A)—Also known as "Lady Slipper." A tender annual with brittle stems and foliage. Grows about 12 inches high. Flower both single and double, in bright colors and variations; are wax-like and very attractive. Double Mixed—Pkt. 10c.

**BALSAM PEAR (A)**—An ornamental climber growing to a height of 12 to 15 feet. Pear-shaped fruit. Pkt. 10c.

**BACHELOR'S BUTTON**—Globe Amaranth (A)—A well-known and popular everlasting flower which forms bushy plants about 2 feet high, and bearing sometimes hundreds of flowers. Excellent as border plants. Mixed—Pkt. 10c; oz. 75c.



Balsam



Carnation

**BALLOON VINE (A)**—A rapidly growing climber of attractive foliage, and deriving its name from the Inflated Seed Pod, resembling a balloon. Pkt. 5c.

**CARNATIONS (P)**—These well-known flowers are easily grown from seed, and very free blooming, the flowers being bright-colored and with a most delicious clove-like fragrance.

**MARGUERITE**—An extra vigorous race, especially adapted for out-of-door culture, as they are trim, habits, perennial, and flower abundantly in five months from sowing the seed. Pkt. 10c.

**DOUBLE MIXED**—A mixture of all colors and types. Pkt. 10c.

**CALENDULA**—Pot Marigold (A)—Very hardy annual, one foot high. Has showy flowers blooming until frost and producing a fine effect in borders. Mixed Varieties—Pkt. 10c.

**CANDYTUFT (A)**—Popular favorites, flowering profusely the whole summer. Very valuable for edgings and borders, fairly covered with masses of white and various colors. Height 1 foot. Of easy culture. White—Pkt. 5c. Crimson—Pkt. 5c. Fancy Mixed—Pkt. 10c; oz. 40c.

**CALLIOPSIS OR COREOPSIS (A)**—Beautiful showy summer bedding annuals with large bright flowers of golden yellow, varied with rich brown. Mixed—Pkt. 10c; oz. 35c; 1/4 lb. 50c.

**CANTERBURY BELLS**—Campanula, Cup and Saucer (P)—Handsome, hardy biennial of stately growth, rich color and profuse bloom. Has large bell-shaped flowers which are strikingly effective in colors white, and various shades of violet, rose, lilac and blue. Height 2 to 4 feet. Pkt. 10c.

**CELOSIA**—Cock's Comb (A)—A half hardy annual, growing 6 to 8 inches high, bearing a wide, wavy blossom that resembles a Cock's Comb. Pkt. 10c. Plumaged Variety—Pkt. 10c. Comb Variety—Pkt. 10c.

**CENTAUREA, GYMNOCARPA**—Dusty Miller (P)—Valuable because of its silvery foliage, and graceful drooping habit of growth. Half hardy perennial; one-half to two feet high. Pkt. 5c.

**CENTAUREA "CORN FLOWER"**—Mixed colors, pkt. 10c.

**CHRYSANTHEMUM (A)**—These annual Chrysanthemums have a charm of their own. The blooming season is from very early summer until frost, and their gay colors make beds or borders attractive during those hottest weeks of summer when flowers are apt to be scarce. Double Mixed Varieties—Pkt. 10c. Single Mixed Varieties—Pkt. 10c.

**COSMOS (A)**—These well-known flowers are of easy culture and are almost indispensable for cutting and garden decorations, their lovely blossoms being produced in greatest profusion after most other flowers have succumbed to frost.

**MAMMOTH MIXED**—The flowers are double the size of the old large flowering Cosmos, measuring from 3 to 4 inches across. Pkt. 10c.

**DIGITALIS, OR FOXGLOVE (P)**—A stately, old-fashioned border plant affording dense spikes of brilliantly colored flowers which are terminal and half as long as height of the plant. Colors, white, lavender and rose. Fine Mixed—Pkt. 10c.



Aster

**DAISY (P)**—These are charming little plants for edging and borders. The daisy has been so far improved by selection and careful cultivation. The plants bloom well in the house and are splendid for early spring and summer flowering. Mixed Colors—Pkt. 10c. White Colors—Pkt. 10c.

**AFRICAN DAISY**—Forms compact plants about one foot high. Branches freely and is covered with daisy-shaped flowers of a glossy yellow, with dark centers, blooms entire summer. Pkt. 10c.

**SHASTA DAISY**—Flowers four inches in diameter, and blooms for months, easily grown. Pkt. 10c.

**DIANTHUS, OR PINKS (P)**—These popular flowers, commonly known as Chinese and Japanese Pinks, have freedom of bloom and almost certain satisfactory results, they stand close to the Nasturtium. Hardy biennials blooming the first year from seed.

**CHINENSIS**—The familiar old Chinese or Indian Pink, easily grown and very showy. Our mixture contains a large assortment of varieties. Pkt. 10c.

**ESCHOLTZIA**—California Poppy (A)—The beautiful State flower of California. The foliage is finely cut and has a bluish tinge, delicate and very attractive. Can be sown in any soil. It is best to sow the seed in the garden where the plants are to remain, as they do not transplant easily. Pkt. 10c.



**FORGET-ME-NOT—Myosotis (P)**—The favorite old border plant that succeeds best in moist situations. It comes into blooming early and the little star-shaped flowers appeal to every heart. Hardy perennials. Pkt. 10c.

**FOUR O'CLOCK—Marvel of Peru (A)**—A well-known favorite plant, bearing freely funnel-shaped white, red and striped flowers, which open about four o'clock in the afternoon, remaining open all night; and usually are closed before noon the next day. Sow seed in spring in open ground in any good garden soil. The plants should be given plenty of room, about three feet apart. Pkt. 10c.

**HOLLYHOCK (P)**—Entirely different and more beautiful than the plant of twelve years ago, being much more compact in growth, the flowers larger, more richly colored and of better form. Height, 5 feet. The double varieties are the most desirable. Double Mixed Varieties—Pkt. 10c.

**HELIOTROPE (P)**—May be grown from seed first season, very fragrant. Height, 2 feet. Mixed colors—Pkt. 10c.

**KOCHIA, OR BURNING BUSH**—Grows from two to two and one-half feet high, is densely covered with small feathery light green foliage, which, as the summer advances gradually changes to crimson. Very ornamental, and of easy culture. Pkt. 10c.

**LARKSPUR (A)**—The Larkspur is one of the handsomest and most useful of plants. The colors are extremely beautiful and in mixed borders its profuse masses of purple, white and red show splendidly. Height, 12 inches. Double Dwarf Varieties Mixed—Pkt. 5c.

**LOBELIA (A)**—Profuse blooming little plants, of great value for edging, hanging baskets or vases. It is completely covered with flowers for a long time. If given plenty of water they may be kept in flower all summer. Pkt. 10c.

**LOVE-IN-A-MIST—Nigella (A)**—A hardy annual one-foot high, with finely cut foliage. Oddly shaped blossoms in blue and white, and curious seed pods. Of easy culture. Pkt. 10c.

**MARIGOLD (A)**—A hardy annual, shrubby plant, in dwarf and tall varieties, growing from 6 inches to 3 feet high. Foliage bright green, deeply cut, and graceful. The flowers are various shades of yellow and brown.

**African**—The best tall variety with large, double blossoms. Pkt. 5c.  
**Dwarf French, Double Mixed**—Pkt. 5c.

**MIGNONETTE (A)**—This popular little flower is well-known as one of our most fragrant plants, and a universal favorite. Pkt. 5c.

**NASTURTIUM (A)**—Probably the most popular and easily grown flower in our list and remains longer in bloom. Nasturtiums prefer dry, rather rocky soil.

**DWARF VARIETIES MIXED**—This mixture contains all of the choicest and prettiest flowers of the Dwarf variety. The plants form a small, round bush, 12 to 16 inches high, which is a mass of blooms all summer. Pkt. 5c; oz. 10c; ¼ lb. 35c; lb. 75c.

**TALL VARIETIES MIXED**—This mixture contains all of the choicest and prettiest flowers of the tall variety, are of quick growth, covering a whole hedge or trellis in a short time. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 75c.



Pansies

**PANSY (J)**—No description is needed of these little favorites and it would be hard to find a garden whose charm is not in a large measure dependent upon their marvelous coloring.

**SUPERB PANSY MIXTURE**—This is a mixture of all the giant flowering varieties, all the plain colors, faced sorts, ruffled edged and rare sorts, also the varieties exquisitely striped. The seed is saved from the most famous pansy gardens, from exhibition flowers. These pansies are wonderfully beautiful in every way and the very best there are. The small difference in the cost of this seed over the other seed is covered one hundred-fold in satisfactory results to the grower. Pkt. 20c.

**GIANT TRIMARDEAU MIXED**—The largest flowering type of Pansy called the French strain. The top petals are larger than the three lower ones and are beautifully marked. The plants are vigorous, compact growth, with immense, three-blotched flowers. Pkt. 10c.

**FINE LARGE FLOWERING MIXED PANSY**—This seed is saved from very good varieties, the flowers are small in comparison with the fine sorts, but the colors are good. Pkt. 10c.

**PETUNIA (A)**—There is no bedding plant of easier culture than the Petunia, and few that make a gayer appearance when in full bloom. They are easily grown, and very popular for bedding. They thrive best in a warm, sunny location. The shape of the flower is similar to that of the Morning Glory. Sow the seed thinly where the plants are to remain, or for early blooming sow in the house in boxes. Single Mixed, Pkt. 10c; Double Mixed, Pkt. 10c.

**POPPY (A)**—Hardly any class of plants afford the same brilliant colorings and showy display. They are of easy culture, the seed being sown where they are to remain. Thin the plants 6 to 12 inches apart. Shirley Poppy, Pkt. 10c; Tulip Poppy, Pkt. 10c. Double Mixed—All the fancy and named double varieties mixed. Pkt. 10c.

**PORTULACA (A)**—Low-growing or creeping tender annual, 6 to 8 inches high, and bearing glossy, cup-shaped blossoms in very brilliant and gorgeous colors. The seed germinate slowly and should be started under glass or when the weather is hot. These flowers love the sunshine and do best on rather dry ground. Mixed—This is an extra fine strain with very large blossoms and splendid colors. Pkt. 10c.



Poppies

Salpiglossis

**PHLOX DRUMMONDII (A)**—One of the prettiest and most popular of garden annuals. Makes very attractive beds, and continues to bloom throughout the summer. Sow in April, in open ground, or can be started earlier indoors.

**GRANDIFLORA LARGE FLOWERING MIXED**—A great improvement on the common type, both heads and florets being nearly twice as large. Pkt. 10c.

**EXTRA CHOICE MIXED**—This mixture is unequalled for profusion of bloom and wide range of brilliant colors. Pkt. 10c.

**PRIMROSE (A)**—Green-house or pot plants, bearing trusses of large size or double blossoms in bright colors, as well as soft tints. Sow the seed in April or May for winter blooming. Pkt. 10c.

**RICINUS—Castor Oil Plant (A)**—Luxuriant rapid-growing annuals with palm-like leaves. Excellent for background or center of beds of foliage plants, the effect being especially striking after the brilliantly colored fruit is formed. Pkt. 10c.

**SALVIA SPLENDENS—Scarlet Sage (A)**—A well-known favorite bedding plant which bears magnificent spikes of scarlet flowers from July to October. Although perennial, it blooms the first year from seed, and there is really no flower that can rival it in splendid color. Excellent for cutting. Pkt. 10c.

**SENSITIVE PLANT—Mimosa (A)**—Curious and interesting little plants with pinkish white flowers. The leaves close and droop when touched. Pkt. 10c.

**SCABIOSA (Mourning Bride or Sweet Scabious) (A)**—Have perfectly double flowers, are useful for cutting, they are gracefully borne upon long tender stems well above the foliage and makes a beautiful cut-flower; height, 2 feet. Pkt. 10c.

**STOCKS, DWARF GERMAN (Ten Weeks) (A)**—Desirable for bedding or pot culture. They bear an immense quantity of fragrant blossoms, each plant forming a perfect bouquet, and are splendid for cutting. Pkt. 10c.

**SUNFLOWER—Mammoth Russian (A)**—Pkt. 10c; ¼ lb. 15c; lb. 25c, postpaid.



## Gladiolus

**AMERICA**—Perhaps the most popular Gladiolus grown, immense flowers of exquisite soft pink, glistening in the sunlight as if sprinkled with diamond dust. 75c dozen; \$5.00 per 100.

**AUGUSTA**—Pure white lavender anthers; strong straight spike often having branches. 75c per dozen.

**BARON HULOT**—Full round flowers of rich velvet purple-violet, lighter in the throat, a small golden rib through the lower petals contrastingly effective. 75c per dozen.

**HALLEY**—Immense flowers of bright orange-rose and having a softer yellowish tint in the throat. 75c doz.; \$5.00 per 100.

**INDEPENDENCE**—Very large wax-like flowers of vivid orange-red color with richly marked throat. 80c doz.; \$6.00 per 100.

**MRS. FRANCIS KING**—A most beautiful and vivid pink; 18 to 20 immense flowers borne on a long strong spike. 75c doz.; \$5.00 per 100.

**MRS. FRANK PENLETON**—Salmon-pink which extends to reverse side of the petals as well as in the center, with a rich, deep maroon blotch on the three lower petals. Flowers are wide open and well placed on strong spikes. 75c doz.; \$5.00 per 100.

**PURITY**—A new white variety with large pure white flowers. 75c doz.; \$5.00 per 100.

**SCHWABEN**—Pure canary-yellow; with a carmine blotch deep in the throat which aids in detracting from its uniformity in color. Flowers are wide open, large in size and well placed on strong spikes of medium height. 75c per doz.; \$5.00 per 100.

### Mixture of Gladiolus

This famous mixture of Gladiolus Bulbs well deserves the name of rainbow. It is a well-blended combination of all the choice named varieties and is far superior to the ordinary mixtures generally sold. Mixtures, 50c per doz.; \$3.50 per 100.

## Caladium Esculentum

**ELEPHANT'S EAR**—Grand, tropical-looking plant. They produce enormous leaves, frequently 4 feet long by 3 feet wide; height 4 to 5 feet.

**EXTRA SIZE CALADIUM BULB**—9 to 11 inches in circumference. Price, 25c each; \$2.50 per dozen.

## Cinnamon Vine

The old favorite "Climbing Mignonette," so much prized for porches and arbors on account of its rapid growth and freedom from insects. Thick, glossy leaves, and long, hanging stems of feathery, fragrant white flowers. Tubers we offer are selected large size. 15c each; \$1.50 per doz., postpaid.

## Madeira Vine

Splendid hardy climber of rapid growth, with bright green foliage and white, cinnamon-scented flowers. Grows from 15 to 30 feet high the first season and will attain a much greater length when fully established. Extra-large roots. 15c each; \$1.50 per dozen, postpaid.

## SPENCER or ORCHID FLOWERING SWEET PEAS

**CULTURE**—Sweet Peas should be sown in drills as early as possible in spring in rich, friable soil. Prepare the bed thoroughly, digging in a quantity of well-rotted manure, if it can be done, making a furrow 1 to 6 inches deep. In this sow the seed and cover 2 inches deep. As soon as the plants begin to show through fill in the furrow. This will secure a deep planting without the bad effects of deep covering of the seed at first, and so enable the plant to bloom continuously through the heat of summer. As fast as the flowers come into full bloom they should be cut off for if the pods are allowed to form the plants will stop blooming.

**WHITE**—Snowstorm.  
**CREAM** or **YELLOW**—Elfreda Pearson.  
**LIGHT PINK**—Primrose.  
**DEEP PINK**—Countess Spencer, Hercules.  
**SALMON PINK**—Doris Usher, Illuminator.  
**ROSE**—George Herbert, Le Marion Marshall.  
**CRIMSON** or **SCARLET**—King Edward Spencer.  
**ORANGE**—Fiery Cross, Helen Grosvenor, Thomas Stevenson.

**SALMON**—Barbara, Sterling Stent.  
**LAVENDER**—Florence Nightingale, Tennant Spencer.  
**BLUE**—Margaret Madison, Wedgewood, Royal Purple.  
**MAROON**—Nubian, King Manuel.  
**PICOTEE EGED**—Dainty Spencer, white, edge pink; Mrs. Townsend, white, edge pink; Mrs. C. W. Breamore, cream, edged pink.  
**STRIPED** or **VARIEGATED**—Senator Spencer.

Prices—Pkt. 10c; oz. 25c; ¼ lb. 85c; lb. \$3.00; except Fiery Cross—Pkt. 15c; oz. 40c; ¼ lb. \$1.25; lb. \$4.00.

**SUPERB MIXED SPENCERS**—This mixture not only contains all the above, but also a host of other varieties all blended together in just the right proportion. Pkt. 10c; oz. 25c; ¼ lb. 75c; lb. \$2.50.

# Add Beauty to Your Home

Now you can have the lawn, flowers, and garden you have always wanted.

Good seed and plants, proper care, and the use of a balanced plant-food are essential. Protect your investment by using the complete plant-food, Vigoro, on everything you grow.

Vigoro is clean and odorless. You can sow it like grass seed, and the cost is only 10c to 20c for every hundred square feet.

We highly recommend this complete, correctly balanced plantfood. Simple directions are in every bag.

# VIGORO

COMPLETE PLANTFOOD

For lawns, flowers, and vegetables

PRICES	
5 lbs.	.....\$0.50
25 lbs.	.....1.75
50 lbs.	.....3.00
100 lbs.	.....5.00



# PEDIGREE COTTON SEEDS

We are cotton Seed Specialists and handle only Pedigreed Seed that are first year from originators. Our seed are as good as the best and priced reasonable. **PLANT BETTER SEED AND GET BETTER PRICES FOR YOUR COTTON.** Never before in our experience has the farmer's attention been drawn so closely to the ultimate importance for Better Cotton Seeds. Do not plant run-down Seed; it will pay you to sell your old seed and buy new.

## Dixie Triumph Wilt-Resistant

This variety is truly a triumph in plant development. Cotton wilt has been absolutely unprofitable to plant cotton on any land. A number of good varieties have been produced that are wilt-resistant. They have proven valuable on many farms. Dixie Triumph is superior to all in every way. It is without doubt the best wilt-resistant variety. It is better in every way.

The boll is larger, 60 to 65 a pound; the staple is longer, full inch; the fibre is stronger; it is very prolific; the boll is thick and tough. Several years' experience with it has proven that the boll is more resistant to weevil punctures after half grown than any other variety we have found. The turn-out of lint is very high. It has a good color and quality. Buyers prefer it. It is a strong, vigorous, healthy, sure crop plant. It is absolutely the best wilt-proof variety. Price—1 bu. \$1.50; 5 to 10 bus. \$1.35; 25 to 50 bus. \$1.20; 100 bus. or more, \$1.00 per bu.

## Lightning Express

Is growing in popularity every year because it is the best selection ever produced of this type for profit-making under boll weevil conditions. The quality and length of staple is just what the spinners want, this insures a steady demand at a good price. It is a great variety, an ideal selection dependable in every way for making a good full crop and profit. Bolls are about 68 to the pound, and turn out as high as 37 per cent. Length of lint  $1\frac{1}{2}$  inch. In the Southwest the length increases.

It is combined Extra Earliness, Prolificness, Fine Quality, Strong Staple of even length, and the big crop of bolls it matures to a safe size by the 15th of July, make it the safest and best selection of this type to plant. Our supply is the very best. Price—1 bu. \$1.50; 5 to 10 bus. \$1.35; 25 to 50 bus. \$1.20; 100 bus. or more, \$1.00 per bu.

## Covington Toole

This was one of the first varieties of a prolific wilt-resistant cotton seed offered to the trade. This cotton was bred from the original Toole and selected carefully for its wilt resistance. It was originated in Alabama and is largely grown in the wilt-infested section in that state. It has also been largely grown in South Georgia, and in all cases has given excellent results. It is a wilt-resistant cotton, very prolific, and we consider it one of the best of the usual heights. It is a small boll, requiring around 85 to make a pound. Usual height  $3\frac{1}{2}$  feet; seed are small and it has a good turnout at the gin, ginning average 42 per cent and above, and we consider this one of the best wilt-resistant varieties in the small boll class. Our stocks as offered are only one year from the originator. Price—1 bu. \$1.25; 5 to 10 bus. \$1.15; 25 to 50 bus. \$1.00; 100 bus. or more, 90c per bu.

## Delta Type Webber

$\frac{3}{4}$  INCH—61 BOLLS TO POUND

Nearly as early as Express. Will make 33 per cent lint. The originator says: "We believe it to be the most prolific and profitable cotton of its length ever produced." In a careful test made in 1924 it made \$50.62 more an acre for lint and seed than the next best variety.

It is all right for planting under weevil condition, and this splendid quality of seed we offer will please you. Price—1 bu. \$2.00; 5 to 10 bus. \$1.90; 25 to 50 bus. \$1.75; 100 bus. \$1.50 per bu.

## College No. 1

A rather new cotton, but in tremendous use here in Georgia, and has been used extensively in Louisiana and Mississippi. Very prolific; 60 bolls to the pound. Lint 1 to  $1\frac{1}{2}$  inch. Gins 40 per cent. Seed medium gray or sometimes greenish gray. Forms begin at the base. It fruits heavily. A tapering plant with sparse foliage. For four or five years has led in earliness and productivity at Athens, Ga., as compared with some twenty-five other varieties; in fact for five years has produced 10 per cent more than the next highest.

A very successful farmer who has planted College No. 1 four years says that in all of his experience he has never grown or seen any cotton grow that is so sure to make a fair crop every year. He has had boll-weevils thick every year, from first to last, and in spite of this has averaged a half bale with moderate fertilization. He has always planted by the 12th of April, and by July 15th has a safe crop of bolls. The reputation of College No. 1 is thoroughly established; it is so reliable and dependable that a crop could almost be guaranteed when the seed is planted. We have seen it make the most successful and profitable crops on every class of cotton land in Georgia, and it is becoming more popular every year over the entire cotton belt wherever it has been tried. It is unusually well adapted to sandy soils as well as to red clay. Price—1 bu. \$1.75; 5 to 10 bus. \$1.50; 25 to 50 bus. \$1.25; 100 bus. \$1.10 per bu.

## Special Early Big Boll King

Our grower in North Carolina has developed a wonderful selection out of King or Sugar Loaf Cotton, which we have named BIG BOLL KING.

This is about a "95-Day Cotton," with very large boll, longer lint than the King and turns out about 40 per cent. It does not fall out like the King; the burr, however, opens well, so that it can be picked fast and with no trouble. This is a very hardy, prolific, thoroughly satisfactory selection that will please you in the excellent profit per acre that it is sure to make under boll weevil conditions.

It is so reliable, has proven such a sure cropper that you may plant as large an acreage in it as you care to buy the seed for. We have two thousand bushels of seed for sale. 1 bu. \$2.50; 5 to 10 bus. \$2.25; 25 to 50 bus. \$2.10; 100 bus. \$2.00 per bu., not postpaid.

## Kings Extra Early

A standard early variety of cotton extensively grown in the short season districts of the Cotton Belt and especially in North Carolina. Its value is in its quick maturity and early production. Bolls are small, make their growth in short time and open thickly. Unless picked promptly is apt to blow out. Lints from 33 to 35 per cent. Not adapted for planting west of the Mississippi river. Kings Extra Early Cotton is similar to Bank Account, a little later and a little less of a bearer, but is a fine anti-boll weevil cotton that will fruit early and keep on fruiting until the last of the season. Bu. \$2.25; 5 to 10 bus. \$2.10; 25 to 50 bus. \$2.00.

## Pedigreed Salisbury

This is one of the newest of our cottons and is a cross between Cleveland and Express. The cotton is still shown in occasional variant stalk the fact of its having two parents. Under boll weevil conditions some of this cotton produced around Augusta this year a bale and a quarter to the acre. The cotton brings at least one cent premium, it having a longer staple than Cleveland. The cotton has medium foliage, fast fruiting and sets bolls early. We have tried it out this year on all soils. The lint of this cotton runs from  $1\frac{1}{2}$  to  $1\frac{3}{4}$ . Has good ginning percentage. Theoretically a cross between Big Boll Cleveland and early staple Express would produce an ideal cotton. Some of the largest farms in the United States, especially down in Mississippi, now are growing this cotton exclusively. Price—1 bu. \$2.00; 5 to 10 bus. \$1.90; 25 to 50 bus. \$1.75; 100 bus. or more, \$1.50 per bu.

## Wannamaker Cleveland

Today the leading type of all our early big boll varieties. Clemson College says that Cleveland is the best of the early big bolls. Bolls are large and thick; 52 to the pound. Lint runs 1 to  $1\frac{1}{2}$  inch and in the Southwest Cleveland always makes  $1\frac{1}{2}$  inch cotton. The lint is strong and tough and should always bring a premium. Seed are white or gray, large but very light—the most often rattles in the shell. Outturn at the gin about 40 per cent. Foliage is very sparse. Stalk is branching in growth with five to six primary limbs. Largely free from anthracnose. Picking is at low cost. A hundred pounds of Cleveland can be picked with seventy pounds are being picked from small boll cottons. 75 per cent is picked out here by the 15th of September. No other cotton has had the same experimental station records, ranking first, time after time, in all tests. This cotton is more widely grown in the cotton belt than any other variety. The cotton has made in numbers of cases, on an acreage of 100 to 200 acres, Wannamaker Cleveland made this year under boll weevil conditions one bale to the acre. One farm of 500 acres in one body made 400 bales. Our seeds are from the two varieties and in all cases are from the best of the pedigree seed. Price—1 bu. \$1.50; 5 to 10 bus. \$1.35; 25 to 50 bus. \$1.20; 100 bus. or more, \$1.00 per bu.

## Coker's Cleveland Number 5 Strain 2

This is one of the most popular varieties that has been produced by this seed cotton breeder and we feel sure farmers planting this variety will reap abundant and satisfactory harvests. The lint of this cotton is very uniform and pulls a full inch under good conditions and turnout runs from 38 to 41 per cent. It is a very early maturing cotton and has good picking qualities—medium size bolls, 64 to 66 per pound. Price—1 bu. \$1.50; 5 to 10 bus. \$1.35; 25 to 50 bus. \$1.25; 100 bus. or more, \$1.10.

## Coker's Cleveland No. 7

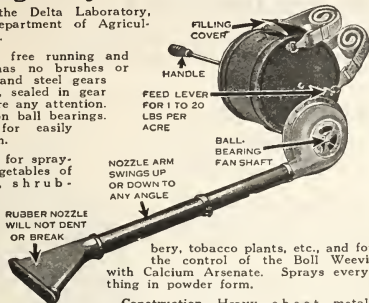
This variety is taking the south by "storm"—farmers planting it last year are writing us for this seed for next season to be sure that they get their planting seed. Our seed are of the very finest quality and pure. This is the longest staple—short staple cotton grown—pulling almost a long staple lint. Cotton buyers pay premiums for it. Price—1 bu. \$1.50; 5 to 10 bus. \$1.35; 25 to 50 bus. \$1.25; 100 bus. or more, \$1.25 per bu.

## Hand Duster Savage Dry Powder Duster

Endorsed by the Delta Laboratory,  
United States Department of Agricul-  
ture, Tallulah, La.

The Savage is free running and  
easy cranking, has no brushes or  
wipers. Bronze and steel gears  
packed in grease, sealed in gear  
case, never require any attention.  
Fan shaft runs on ball bearings.  
Large opening for easy  
filling with poison.

Highly adapted for spray-  
ing garden vegetables of  
every description, shrub-



bery, tobacco plants, etc., and for  
the control of the Boll Weevil  
with Calcium Arsenate. Sprays every-  
thing in powder form.

Construction—Heavy sheet metal;  
brass; aluminum fan and housing; rubber nozzle; ball bearings through-  
out; nicely finished. Weight—When empty, 9½ pounds. Packed one in  
case. Shipping weight, 14 pounds.

Hopper—Capacity 7 to 10 pounds of poison, depending on density.  
Full directions for operating with each Duster. Built of the finest ma-  
terial and workmanship, and made to stand long hard service. Each,  
complete, \$18.00.

## Fight the Boll Weevil

We suggest to the farmers of the South the following meth-  
ods of combating successfully the "Boll Weevil":

(1) In the Fall cut down as soon as possible all cotton stalks  
and plow the ground as deep as possible, allowing the broken ground  
to be exposed to the cold, frost and snow as much as possible.

(2) Early plantings of the Earliest varieties of Seeds, using  
only the improved strains of Pedigreed origin.

(3) Effective Poisoning when the time the cotton stalk first  
comes out of the ground until the bolls have formed. Using  
Calcium Arsenate, first with the molasses mixture and secondly  
in the dust form, will successfully eradicate the Boll Weevil.

## Power Dusters

FRANK'S MULE DRAWN, TWO-ROW DUSTER—Each complete  
\$50.00.

We also have stocks of 4-row dusters of various makes, also  
other makes of 2-row dusters. Write us for prices.

Take Advantage of the Two-Fold Action of

### "BLACK LEAF 40"

Kills by Contact and Fumes

While the effectiveness of "Black Leaf 40" in killing insects is  
primarily dependent upon direct contact (wetting) a secondary  
advantage is furnished by the "gassing" effects of the pen-  
etrating nicotine fumes set free in the spraying material. This  
two-fold action helps definitely toward securing the highest per-  
centage of efficiency—and is an advantage not possessed by any  
non-volatile spraying solution.

### Spray Thoroughly

Insects are of two classes, "sucking" and "chewing." Sucking  
insects such as aphids and thrips, feed upon the vital plant juice,  
drawing it from the interior of the plant, through their sharp,  
slender beaks. Chewing insects such as beetles and worms,  
actually eat plant tissue. "Black Leaf 40" is a contact insecti-  
cide, hence is not a preventive of insect attack, but rather a  
control. It should be used after the insects appear, and for  
proper results the spray should be applied on both the top and  
under sides of the foliage.

The efficiency of "Black Leaf 40" is increased by adding a  
spreader to the spraying solution. Mix enough dissolved soap  
or soap flakes to the water to produce suds. Add the proper  
amount of "Black Leaf 40" and shake the sprayer to mix the  
solution thoroughly.

1 oz. size.....	\$0.35
½ lb. ....	1.25
2 lbs. ....	3.50
10-lb. size .....	13.50

# CYANOGLAS

REG. U.S. PAT. OFF.

## A-Dust

FOR INSECT AND RODENT CONTROL

## GAS THEM!

**RATS AND MICE**—Pump CYANOGLAS A-DUST into open  
hole with a Cyanogas Duster—Plug all other holes from  
which dust is seen to emerge.

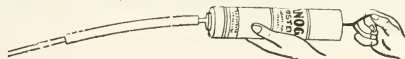
**MOLES**—An opening every ten feet along entire system  
with pointed stick. Start at one end and blow CYANOGLAS  
into each opening with a duster. Then cover each opening  
with sod to retain the gas.

**GROUNDHOGS (Woodchucks)**—Place heaping tablespoon-  
ful of CYANOGLAS A-DUST deep into the burrow, close  
entrance carefully to avoid covering CYANOGLAS with  
loose dirt.

**ANTS**—Garden and Lawn ants need only a pinch of  
CYANOGLAS in the opening, made larger with a pencil or  
pointed stick. Leaf-cutting and Mound Building (Harves-  
ter Ants) are exterminated by forcing CYANOGLAS A-DUST  
into nest with the duster. Detailed instructions with con-  
tainer, which covers the extermination of Fleas, Grasshop-  
pers, Locusts, Gophers, Ground Squirrels, Prairie Dogs and  
other pests.

½ pound tin, 45¢; 1 pound tin, 75¢; 5 pound tin, \$3.00;  
25 pound tin, \$10.00; 100 pound drum, \$30.00.

## No. 1—Special Hand Duster



For Applying Cyanogas A-Dust

A small hand duster for applying CYANOGLAS A-DUST  
to rat holes, groundhog burrows and mole runways. Pro-  
vided with rigid and flexible extension tubes to facilitate  
application of dust on small rat and mole infested areas.  
This duster may also be used with any insecticide dust,  
by removing the extension tube.

Price, Each - - - - - \$1.00

## Sherwin Williams and Delta Brand Calcium Arsenate

100-lb. drums, per 100 lbs., \$7.00. In ton lots or more, \$6.75  
per 100 lbs. Prices subject to change without notice.

## Hocking Valley Cider Mills

Strongest and most durable cider mill on the market. Hard-  
wood roller with steel knives; does not color the cider. Easily  
cleaned after using.

Junior Mill...\$35 Medium Mill...\$42.50 Senior Mill...\$55  
Senior Mill with Power Pulley.....\$57.50

## Hocking Valley Corn Shellers

These shellers are carefully made of the best material, and  
will shell corn as perfectly as any sheller built.

One-Hole Sheller, Plain...\$16 One-Hole Sheller, with Fan...\$18  
Two-Hole Sheller, with Fan and Power Attachment.....\$40



# Kirkland's Prolific and Selected Seed Corn

## Better the Seed—Better the Crop

**CULTURE**—Plant 8 quarts to an acre. Usually planted in the South from March 5th to June 25th. Plant 5 foot rows 12 inches in drill—though controlled by strength of land. A good fertilizer consists of 250 pounds of Acid Phosphate and 250 pounds cotton seed meal per acre. Never plow corn deep. Plant field corn in Florida, January and February.

## Kirkland's Prolific Golden Beauty Corn

**Proven by every known test to be the best Yellow Corn ever grown in the South.**

It is a beautiful rich golden yellow and a prize winner in every respect. It is worth twenty-five per cent more for feed than any other corn.

This variety is new. It was introduced by the N. L. Willet Seed Co. and was a very popular variety with them. Since they went out of business this corn has not been on the market until this year. We got a small quantity of seed stock and have had it grown especially for us. We know that planters who have used this wonderful corn will welcome it back.

This corn was produced through many years of crossing the Louisiana Yellow Creole, Marlboro and Georgia Six Ear, and carefully selecting and breeding for a pure type. There has been a great demand for a hard, flinty, prolific yellow corn.

**Description**—Small cob, grains deep, rich golden yellow and hard. Makes two to four ears to the stalk. It is very high in feed value and growers claim that it will feed longer than any white variety. We believe this to be the best keeper of any corn. It never rots in the field on account of bad weather. You can shock it in the field in early fall, let it stay until late spring and when you shuck it, it will be in perfect condition. Is hardy and vigorous and more resistant to drought than any other variety. Is ten days to two weeks earlier than Marlboro or Georgia Six Ear. Our supply this year is very limited. Prices, postpaid, 1 qt. 30c; ½ pk. 75c. Not prepaid, peck 90c; bu. \$3.00; 2½ bushel bag at \$2.75 per bushel.

### Kirkland's Pedigreed Seed Corn.

The grains are long and slender, flinty, and has fine keeping qualities. We offer a prize of \$25 in gold to the farmer who produces the most bushels per acre during the year 1932. When ordering state that you intend to enter contest. Contest closes October 1, 1932. Per peck 75c; bushel \$2.50; 5 bu. lots or more, \$2.25 per bushel.

### Kirkland's Improved Golden Dent.

(Our Earliest Yellow Field Corn)—This is not a prolific corn, but always yields from one to two nice large ears. Has large, broad grains of a rich golden color. Not a flint variety, but a moderately hard corn, well shucked and does not rot in the field. Is exceptionally early, maturing in about 90 days, and because of its earliness it is now being largely grown for early feed crops, and after oats or truck crops. Meal can be had one hundred days after planting. It is a hardy, healthy, vigorous growing corn and withstands adverse weather conditions better than many others. An improvement over the common Yellow Dent, and much superior in every way. We get our stocks each year from the best habitat for this corn. It is carefully selected and the very best. It is advisable to buy fresh seed each year. Price—Postpaid 1 qt. 35c; ½ pk. 75c. Not postpaid, pk. 75c; bu. \$2.25; sack 2½ bus. \$2.00 per bu.

### Kirkland's Improved White Dent.

(Our Earliest White Field Corn.) In earliness, hardiness and vigor this corn is identical to our Improved Golden Dent. Often used for roasting ears, but we do not recommend it for this purpose, the garden varieties (under vegetable department) are preferable in every respect for the table. A softer corn than Golden Dent, the grains are large white and deep; cob is comparatively small. This is an ideal milling type. Some growers use it each year as their main crop and it has produced on good lands 60 to 90 bushels per acre. There is quite a demand for it, for early planting, on account of earliness, and late plantings, after truck and oats. Our stocks are carefully selected and the best obtainable. Price—Postpaid, 1 qt. 30c; ½ pk. 75c. Not prepaid, 1 pk. 75c; bu. \$2.25; sack 2½ bus. \$2.00 per bushel.

### Ensilage Corn.

(Eureka Ensilage.) Eureka is a double purpose corn, for aside from being a first-class ensilage corn, as a field variety it ranks high in yield. It is tall and leafy, 12 to 15 feet high, with a tremendous growth of fodder. It bears one to two ears to the stalk, the ears frequently over 12 inches, and like all corns that bear more than one ear to the stalk should be grown on good lands. We recommend it for bottom lands and low grounds. By mail, postpaid, qt. 30c; pk. 90c; ½ bu. \$1.75; bu. \$3.00.

### Hasting's Prolific.

This is a very well known seed throughout the South. Our Seed Stock is grown by one of the best row-to-row plant breeders in the South, and we do not hesitate to highly recommend this seed to the most particular farmer. The ears are well filled at both ends and makes a highly desirable corn for feeding as well as milling. The grains are white and very close together with a small cob. Matures in 120 to 130 days. Qt. 30c; postpaid. Not prepaid, ½ peck 90c; peck 90c; ½ bushel \$1.50; bushel \$2.50. Bushel lots or more, \$2.25.

### Williamson Seed Corn.

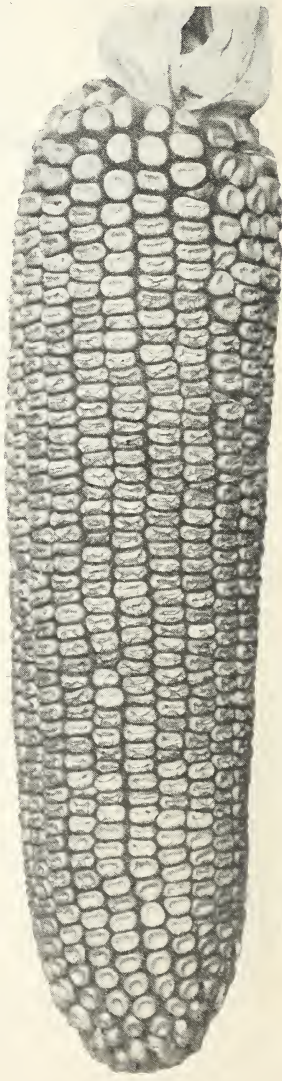
This is the most popular corn and the fastest growing in popularity of any Seed Corn we know of. The stalks of this corn grow to a very large size and bears one or two well developed ears to the stalk. This corn has very fine keeping qualities, the grains being very flinty and transparent, showing that it has been bred between two very fine varieties of corn. It shells out about 85 pounds of seed corn to the 100 lbs. of ear corn. Peck \$1.00; bushel \$3.00.

### Lowman's Prolific.

Small cob, deep gored seed grain; will average two or three good ears to the stalk. This corn has proven very popular with all farmers who have tried it. We anticipate this to be our biggest seller this season and suggest you write us at once as to your plans for the coming season. This seed is grown for us in this section by our private grower, and is strictly pure and high grade. Peck 90c; bushel \$2.50.



Kirkland's Improved White Dent Corn



Williamson's Corn

**Douthit's Prolific Corn.** This corn has led for the past several years in yield tests per acre made by Clemson Agricultural College. Our seed stock is only one year removed from the originator and has been selected and graded. Peck 75c; bushel \$2.50.

**Garrick's Prolific.** A pure white corn and very prolific, usually two ears to the stalk. The season is medium late to late and is an excellent weevil resistant. The grains are very flinty, white and medium deep. Peck 75c; ½ bushel \$1.40; bushel \$2.50; 5 bushel lots or more, \$2.25.

**Improved Tennessee Red Cob.** Improved strain of Tennessee Red Cob is a two-eared variety with much smaller cob than the old type of Tennessee Red Cob. The stalk is also smaller and for this reason can be left a good deal thicker in the rows. The grains are long and very evenly distended. Improved Tennessee Red Cob scarcely ever have a barren stalk. Our supply of this excellent variety is very limited and for this reason we advise sending in your order early. Qt. 20c; peck 75c; bu. \$2.50.

**Hickory King.** This corn contains the smallest cob of any variety, grains large and white, making a fine quality of meal. Matures in 115 to 125 days. This is probably the best known of all the standard varieties. Prices: Postpaid, 1 qt. 25c; ½ pk. 75c. Not prepaid, 1 pk. 75c; 1 bu. \$2.50; sack 2½ bu. \$2.25 per bushel.

**Mexican June.** The Mexican June corn we are now offering is quite an improvement over the old of a few years ago. We have improved the quality of this corn to the place where now it produces two large ears to the stalk and each ear averaging from 600 to 700 grains. We only list the Tall Mexican June Corn. All tests prove it to be the best. There is no variety of corn that can be planted as late as the Mexican June, and mature. Plant June 1st to July 25th. You, too, can have roasting ears up until frost by planting this corn. This is the best of all corns for silo purposes when planted late; produced here around 16 tons of silage per acre. Our grower the past season planted Mexican June corn on July 15th, and averaged 65 bushels of matured corn per acre. It is better never to pull the fodder, but shock down corn and leave it this way until thoroughly dry. Will stand more drought than any other variety. Postpaid, 1 qt. 30c; ½ peck 75c. Not prepaid, 1 pk. \$1.00; 1 bu. \$3.00; sack 2½ bu. \$2.75 per bushel.

USE BLUE RIBBON SHEEP MANURE for all uses. "Blue Ribbon" is the original Sheep Manure—accept no other brand—5-lb. sack, 30c; 10 lbs. 50c; 25 lbs. \$1.00; 50 lbs. \$1.75; 100 lbs. \$3.00. Per ton, \$48.00.

## Kirkland's Sorghums

Nothing Takes Their Place in the South as a producer of Early Feeds, and No Crop is More Profitable Than the Syrup-Yielding Varieties.

**CULTURE.**—Plant from April 15th to August last. If in rows 3 feet apart 15 lbs. to the acre, or broadcast one bushel per acre.

**Sorghum.** (Andropogon.) (50 pounds bu.) The Sorghums make a larger yield in the same length of time than many other forage crops. Their use as a forage crop has increased very rapidly. No food is more nutritious or more greatly relished by cattle. Should be one of the staple crops of every Southern farmer. An excellent green feed. Can be cut over 3 times during a season, yielding 2 or 3 crops from one seeding. Will stand dry weather much better than millet, and is a surer and larger yielding crop. Makes an excellent summer pasture for hogs. An economical silage maker, because when ripe it usually remains undeteriorated as uncut for a month. For hogging, broadcast three pecks per acre; graze April plantings in June, and May plantings in August; and the July plantings in September and October. In syrup-making chop off seed heads and feed them or make seed. One ton makes 20 gallons of syrup. The best fertilizer is two or three hundred pounds of cotton seed meal per acre.

**Sugar Drip.** Falsely called "Texas Seeded Ribbon Can." Practically the same as Goose, except it has straight head. Stalk at base 1 to 2 inches in diameter. One acre makes 200 or more gallons of syrup of good quality. This finely flavored syrup as made from our Southern Sorghums, Sugar Drip and Honey types, is becoming a big industry. Farm hands like it much better than the commercial syrups so largely doctored with glucose. Yields in forage three times amount Amber does. Seeds are larger than Orange, flatter, very much lighter in color; hull is maroon and shells clean. A new, separate and distinct Sorghum. One of the best varieties for making syrup. Grows 12 to 15 feet high. Many growers think it makes the sweetest and finest flavored of all Sorghum syrups. Seed often sold at fancy prices. On account of its especial sweetness, cattle are extremely fond of it. Much liked. Heavy seed. Only grown in the South. In the Southwest it is called "Georgia Can." The demand has been much more than the supply. Price: Postpaid, lb. 25c; ½ pk. \$1.25; pk. \$2.25. Not prepaid, pk. \$1.00; bushel \$3.50.

## Pop Corn

Its General Uses Are Unknown

**CULTURE.**—Pop Corn is usually thought of only as a popping proposition, but it is, however, one of our best crops for forage and early feed that is known. There is no crop known that will produce more forage and of the very highest feeding value than Pop Corn. It should be planted in 3 or 4 foot rows about 6 inches in the row, several grains to the hill. In June it is full grown and has an abundance of ears in the milk. This crop can be cut and fed to stock and be ready to be cut up to July 4th. When planted for corn it should be planted much thinner, one stalk to the hill, every 3 or 4 inches in the row and will produce on good land 35 to 50 bushels per acre.

**White Rice.** This is probably one of the most well known and popular varieties. It is very prolific. It pops pure white and the quality is excellent. Produces one to six ears to the stalk. Price: Postpaid, 1 pk. 10c; 1 lb. 25c; 5 lbs. \$1.00. Not prepaid, 5 lbs. 75c; 10 lbs. \$1.25; 100 lbs. \$9.50.

**Golden Queen.** One of the best varieties for forage purposes. Ears a little larger than White Rice; handsome yellow grain. Pops perfectly white and exceedingly tender. Price: Postpaid, 1 pk. 10c; 1 lb. 25c; 5 lbs. \$1.00. Not prepaid, 5 lbs. 75c; 10 lbs. \$1.25; 100 lbs. \$9.50.

**Pop Corn and Cow Peas Mixed.** This makes an ideal combination and the cheapest of hay. Use one-fourth bushel of Pop Corn, three-fourths bushel of Cow Peas per acre. It cures easily and makes a balanced ration.

## Broom Corn

More of This Crop Should Be Grown in the South

**Improved Evergreen Broom.** We have found this to be the only variety that has proven successful in the South. Will not get rid in the field before it is cut. Strictly a green variety of brush. Grows about 8 feet. Stands up well and always free from crooked brush. One acre produces about 500 pounds of brush, and 30 to 40 bushels of seed. Plant in spring like corn, the same cultivation, although somewhat later in the season. Plant in drills 3½ feet apart leaving 6 inches in the row. Requires 20 pounds to the acre. This crop has been tremendously profitable in the past few years, and we advise the more general planting of this. Get Agricultural Department at Washington to mail you a complete bulletin for preparation for the market. Price: Prepaid, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$1.75. Not prepaid, 10 lbs. \$1.30; 25 lbs. \$2.75; 100 lbs. \$10.00.

**Early Amber.** (Called also Chinese.) Slender stalks, narrow leaves. Seed heads loose and drooping, with black hulls, which usually do not shed in threshing; seed reddish yellow. The earliest Sorghum forage known, making 70 to 100 days, according to climate. Produces about 4½ tons of forage per acre. Is not essentially saccharine, and is not adapted to syrup-making. Price: Postpaid, lb. 20c; ½ pk. 75c; pk. \$1.25. Not prepaid, pk. 60c; bu. \$1.75.

**Early Orange.** Georgia Experiment Station made total three cuttings green forage per acre, 42,018 lbs. Erect and compact; heads larger, heavier stalks, and heavier seed heads, but later in maturity than Amber. Chaff deep red, seed reddish yellow. In threshing seed are freed from hulls and are clean. Price: Postpaid, lb. 20c; ½ pk. 80c; pk. \$1.35. Not prepaid, pk. 60c; bu. \$1.75.

**Red Top, or Sumac.** Stems sweeter and juicier than some other Sorghums. Seeds smallest of all and go farther in planting. Head erect, dark red in color. Yields about 5 tons per acre of forage. Seeds roundish and clean usually of hull. Medium early, 7 to 10 feet high. Leads all other varieties in portions of Tennessee and in North Georgia for forage; universally used and preferred, seed bringing there a premium. The best of all Sorghums for silage. About six days later than Orange. Stools well. Price: Postpaid, lb. 20c; ½ pk. 85c; pk. \$1.40. Not prepaid, pk. \$1.10; bu. \$3.25.

**Honey Drip.** Southwestern Seeded Ribbon Can. Only grown in the South. The U. S. Department of Agriculture says: "Was distributed by the Department for a number of years, and is the sweetest of all Sorghums." This new Sorghum makes an unusually large stalk, sometimes as large in diameter as Ribbon Can, and much taller. Prolific in juice, and runs higher in saccharine than any other Sorghum, being one of the heaviest yielders of syrup known. Price: Postpaid, lb. 25c; ½ pk. \$1.25; peck \$2.25. Not prepaid, peck \$1.00; bushel \$3.50.



# Non-Saccharine or Grain Sorghums

THE VALUE OF THESE SORGHUMS IS JUST NOW BECOMING KNOWN

NOTE—It has been demonstrated that Poultry can be raised in the South cheaper than in any other section of the United States, if our farmers would raise their feed; but it cannot be raised profitably when feed has to be bought from the West. These non-saccharine Sorghums as offered below if planted by poultry raisers will do away with having to use the Western feeds.

The Kaffirs, Milo, Feterita and Shallu (called the grain Sorghums) for cattle and human feed are in dry times a more certain crop for grain than corn. Makes usually from 25 to 40 bushels per acre; 70 pounds of heads equal one bushel of corn. The stalks of these varieties are not hard like Sorghum, but pithy. Can be cut down and shocked up quickly and make an excellent forage and are easily cured. Valuable crop for poultry raisers. In dry regions are wholly supplanting corn and are used for all corn purposes. The best fertilizer is 200 or 300 pounds of cotton seed meal per acre.

**Kaffir Corns.** (50 pounds to bushel.) Mississippi Experimental Station says: "Will yield thirty bushels of seed on land making only 12 to 15 bushels of corn. Plant as late as July 20—plenty of time to mature seed." The principal crop in Oklahoma. Used as a part in all prepared chicken feeds. Sow with Cow Peas broadcast, at the rate of a peck of Kaffir Corn to a bushel of Cow Peas per acre. Both can be cut together, making an enormous yielding crop of most nutritious feed. For a crop of forage by itself, sow broadcast at rate of from 1 to 1½ bushels per acre, or drill two pecks per acre. For seed, plants should be 4 inches apart. The ground grains make fine muffins, waffles, etc.—700,000,000 people eat it. For mixed hay, one peck with 1½ bushels of Cow Peas; get better than Sorghum since Kaffir has a soft stalk and cures more easily. Get Bulletin 31, Agricultural College, Stillwater, Okla.

**White Kaffir.** A straight, upright growth. Stalky stem and wide leaves. Yield in seed per acre, 30 bushels. Valuable for stock and poultry. A valuable fodder crop; grows from 4 to 6 feet high. Stalks attain unusual thickness and put out enormous leaves; dense foliage shades the ground and absorbs the moisture. Fodder is relished by stock. Each stalk carries a large seed head. The joints look like Sugar Cane joints, and from these joints grow oftentimes suckers. Makes a pint of grain per stalk. Price, postpaid, lb. 25c; ½ pk. 90c; pk. \$1.50. Not prepaid, pk. 90c; bushel \$2.50.

**Red Kaffir.** This variety has red seed. Yields well on poor land and ripens earlier than the White and probably a little more hardy. Stalk is more tender and juicy. Heads are long and slender. Grows 5 to 6 feet. Price, postpaid, lb. 25c; ½ pk. 90c; pk. \$1.50. Not prepaid, pk. 90c; bushel \$2.50.

**Shallu.** (50 pounds to bushel.) (Called also Cal. Rice, Cal. Wheat, Egyptian Wheat, Chicken Corn.) A non-saccharine Sorghum of widest use in India. Our Augusta grower made 30 bushels of seed planted very late on three-quarters acre. He says: "Makes more seed than any Cane or Sorghum, and nearly double that of Kaffir Corn. Stools heavily, 4 to 6 stalks per hill; grows 10 to 14 ft. high; planted early, two crops can be had, first for green cutting and second as seed crop. Heads look like large broom corn heads; seed are round, plump and white like Kaffir Corn. Excellent for forage; seed unexcelled for chicken feed and good for cattle; excellent if ground as meal for the human." A grower in Alabama says: "We grow two crops in Alabama to the acre." Plant in rows 3 feet apart, 10 pounds to the acre, or broadcast 25 pounds. Price, postpaid, lb. 30c; ½ pk. \$1.35; pk. \$2.50. Not prepaid, pk. \$2.25; bushel \$7.00.

**Milo Maize, or Branching Dhoura.** (Forty pounds bu.) A variety of Sorghum, non-saccharine, growing stalks 8 to 10 feet high. Grows similar to Kaffir Corn. Three weeks earlier, makes more grains per stalk. Texas matures Milo in July. Stands dry weather, and makes crop where corn would fail. Plant in 3-foot rows, leaving one or two plants every 6 inches in the row and cultivate as corn; 12½ lbs. per acre, in drill, or 40 lbs. broadcast; stools heavily—5 to 6 stools from each seed; cut green many times; good for the silo. Very productive; makes sometimes as much as 40 bushels seed plus first cutting fodder. If hogs are turned on a field in Indian Corn, Kaffir Corn and Milo they will devour the entire Milo before touching either of the others. Seed larger than Kaffir. Price, postpaid, lb. 20c; ½ pk. \$1.00; pk. \$1.75. Not prepaid, pk. \$1.00; bushel, \$2.75.

**Teosinte.** (Euchlaena Luxuriana.) Stalk resembles Indian Corn; stools heavily; sow in April, May or June. Cut when two to three feet high, and continue to cut as it grows out, all through summer. One acre will produce 30 tons green food in the season, and take care of 10 head of cattle. Miss. Exp. Sta. reports 22 tons per acre green forage product. One seed makes 20 to 30 stalks or stools. On rich land grows 15 feet high and produces larger amount of forage than any known plant. Have seen 225 pounds of forage from one seed; 10 per cent saccharine. Seeds only in extreme South. Plant 2 lbs. to acre last March, drill 4 feet apart, seeds one foot in the drill; cultivate as corn. Ripens late of November. It takes 85 degrees heat to germinate Teosinte; needs a long, hot season, rich soil, abundant moisture. Fine for silo. Price, postpaid, 4 ozs. 40c; lb. \$1.10; 5 lbs. \$5.00. Not prepaid, 5 to 10 lbs. at \$1.00 per lb.; 25 to 50 lbs. at 95c per lb.

## Vetches, Clovers, Grasses Suitable for the South

NOTE—"Leguminous Crops in North Carolina."—A good bulletin. Experimental Station, Raleigh, N. C. Get it.

### VETCHES

For Full Description, Get Our Fall Catalogue.

**Hairy Vetch.** (VICIA VILLOSA). Price, postpaid, 1 lb. 25c; 5 lbs. \$1.00. Not prepaid, 5 to 10 lbs. 16c; 25 to 50 lbs. 12c; 100 lbs. 10c per lb.

**Sativa, or Oregon Vetch.** Price, postpaid, 1 lb. 25c; 5 lbs. 12c; 25 to 50 lbs. 10c; 100 lbs. at 9c per lb.

**Augusta Vetch.** Price, postpaid, 1 lb. 20c; 5 lbs. 75c. Not prepaid, 5 to 10 lbs. 12c; 25 to 50 lbs. 10c; 100 lbs. at 8c per lb.

### ALFALFA

Get our Fall Catalogue for full description. We only list in spring varieties generally planted at that time.

**Alfalfa, or Lucerne Clover.** 60 lbs. to bushel. A legume and soil renovator. (Medicago Sativa.) Stools or multiples and stems heavily—30 to 40 stalks from one root. These throw out numberless intertwined branches; average growth 3 ft. Drill 10, or broadcast 20 lbs. per acre, spring or fall. Cut before blooming 4 to 5 times a season. Deep feeder—needs a loose soil; grown throughout America; better than red clover. In place of successive cuttings, Alfalfa can be cut in June and then pastured until October 1st. Pound for pound, it has equal feeding value with bran or the grains. At the Government Diversity Farm in Alabama there



## ALFALFA—Continued

was netted \$51 an acre on Alfalfa—five cuttings, \$12 per ton for hay on acre land rated at \$15 per acre. Georgia Agr. Coll. made 6½ tons per acre with five cuttings. Best in Georgia to drill, 3-foot rows and clean cultivate for several years the middle till weeds are driven out. On plant middles, Alfalfa will lap when grown in 2½-foot rows. On a small scale, if a few rows are grown in a garden, it will furnish in successive cuttings goodly amounts of green forage, year after year, without replanting. Many people grow Alfalfa successfully by planting 1½ or 20 lbs. along with the oats in February. Price, postpaid, 1 lb. 35c; 5 lbs. \$1.50. Not prepaid, 5 to 10 lbs. at 25c; 25 to 50 lbs. at 22c; 100 lbs. at 19c per pound.

**Hairy Peruvian Alfalfa.** Is fast supplementing in the South. It carries a very much longer season and, therefore, carries more cuttings, and yields according to all tests, 1¼ to 1½ tons more of hay per acre than other types; the hay is of finest quality because of the greater abundance of leaves which are much larger than the usual type. Grows at a lower temperature than other Alfalfa. Remarkable to say, this Alfalfa keeps practically green and an edible proposition throughout the whole year, while other Alfalfa goes down at frost. Takes on a fuzz in winter which protects the plant. Leaves off fuzz in summer. Drill 10 pounds per acre; 20 pounds broadcast. Price, postpaid, 1 lb. 35c; 5 lbs. \$1.50. Not prepaid, 5 to 10 lbs. at 30c; 25 to 50 lbs. at 26c per lb.

DID YOU KNOW THAT SOUTH CAROLINA VEGETABLES HAVE THE GREATEST AMOUNT OF IODINE OF ANY STATE IN THE UNION? There will be an enormous demand all over the country for South Carolina vegetables—plant them in abundance—IODINE prevents Goiter, and many other diseases. PLANT MORE POTATOES.

## CLOVERS

**Georgia Burr Clover, or Spotted Clover.** (Medicago Arvensis.) In burr; 10 pounds to the bushel; in immense use. Plant July, August and September. See Fall Catalogue for full description. Price, postpaid, 1 lb. 25c. Not prepaid, 1 bu. \$1.75; 5 to 10 bus. at \$1.50 per bu.

**Georgia Melilotus Alba, or Bokara, or Sweet.** A legume. Use Farmmarger. Sow 12 pounds per acre in March or April. Or sow in the fall with grain and cut later after grain cutting. Can be pastured spring and summer and plowed under in fall. Great soil renewer. Cut for hay when two feet high—when not woody; grows five feet. Reseds as long as land is unbroken. Sweetest of all hays and mixes fine with Johnson Grass. Seeds about July 15th. Reseds close to the ground, and continues to grow. The bee makes best friend because of its sweet flowers. In the past four years Mel Alba has been sensationally transformed from a semi-weed into a plant of greatest use and value. Price, postpaid, 1 lb. 30c; 5 lbs. \$1.30. Not prepaid, 1 lb. 20c; 5 to 10 lbs. at 15c; 25 to 50 lbs. at 12c per pound.

**Japan Clover.** (25 lbs. to bu.) (Lespedeza Striata.) A perennial well known now in the South. Sow in fall or spring in permanent pastures by scarifying surface with disc harrow. Is eaten greedily by stock—June until frost. In rich soils grows 20 to 30 inches high and is mowed, two tons to acre. Appears in May. Can plant in spring 25 pounds per acre alone, or fall with rye and oats. Spreading by natural means rapidly through the whole South. Will grow on any land, sweet or sour. Stock and hogs are fond of it. Scatter it in the woods or pastures, fall or spring. Sow seeds in fields on top of ground after spring oats are planted. For reseeding do not cut till seed on ground stems have ripened, which then scatter. Price, postpaid, 1 lb. 30c; 5 lbs. \$1.25. Not prepaid, 5 to 10 lbs. at 15c; 25 to 50 lbs. at 12c; 100 lbs. at 10c per lb.

## GRASSES

For Spring and Summer Planting in the South

**Bermuda Grass Seed.** (Cynodon Dactylon.) (Couch Grass or Joint Grass.) A perennial sun-loving grass, spreads extensively by creeping stems. The most valuable of all grasses for pastures in the South. Graze from May to middle of November. Every three or five years disc

harrow the sod bound soil in spring. Excellent soil builder. Ton for ton has equal value. Grows on great varieties of soil. On rich land two to four cuttings can be had (2 feet high) yearly. Seed re-planted 6 to 8 pounds per acre in moist seasons in spring or summer; best to press in with a roller. After the last cutting in the fall, plow land and sow oats or vetch, or a mixture of the two. The oats and vetches give a crop of hay in May and by July the Bermuda may be cut. Combined with Burr Clover will give green pasture all the year. Excellent, too, for lawns. No other grass equals this for summer lawns except Carpet. Price, postpaid, 1 lb. 40c; 5 lbs. \$1.75. Not prepaid, 5 to 10 lbs. at 30c; 25 to 50 lbs. at 25c; 100 lbs. at 20c per pound.

**Carpet Grass.** (Paspalum Compressus.) (18 lbs. bu.) From West Indies. This is the most wonderful grass for pasture purposes, for lawns, golf links, etc., that we know. A perennial. It is never a pest and is easily eradicated. Flourishes in lands short in lime. Grows exceptionally well in shade. Stands grazing and trampling better than most grasses. We find, too, that this grass will absolutely crowd out Bermuda and will give a better growth throughout the South on sandy lands than any other grass we have tried. The Government says that in our Southern Coastal plains and flat woods country that this grass is better than Bermuda. Grows 2 to 2½ feet. In Florida, where the temperature does not go below 20 degrees, this grass will stay green the year round. There is an immense demand for the seed and now can be supplied in fairly good amounts. A big South Carolina cattle man writes us January list: "My Carpet Grass came up well and is still green though showing frost somewhat now." Plant from March until May on well prepared land from 5 to 8 lbs. per acre; cover very lightly. Price, postpaid, 1 lb. 40c; 5 lbs. \$1.50. Not prepaid, 5 to 10 lbs. at 25c; 25 to 50 lbs. at 20c; 100 lbs. at 18c per pound.

**Herds, or Red Top.** (Agrostis Vulgaris.) (10 lbs. to bu.) Good for general use. One of the best of all grasses for a forage plant; moist land pastures. It's best when fed during close as to forage plant; not killed by overflows; improves with age each year. Its chief value is a pasture grass, although it is used largely, too, for permanent pasture. Sow fall or spring, two bus. to acre. Price, postpaid, 1 lb. 35c; 5 lbs. \$1.50. Not prepaid, 5 to 10 lbs. at 20c; 25 to 50 lbs. at 18c per lb.

**Johnson Grass.** (Sorghum Halepense.) (28 lbs. to bushel). Known, too, as Guinea Grass, and false Guinea Grass. Johnson and Johnson are the standard Augusta hay farm mixtures. Plant as soon as frost disappears, through June 30 to 40 lbs. to the acre. Cut before head flowers; 3 to 4 cuttings per season. Withstands drought; yields heavy crops year after year without retreating, though ground needs each fall, disc harrowing. Do not let go to seed, spreads if you do; the root system develops only after plant seeds. Large areas of Johnson Grass are to be found in Alabama, Texas and Mississippi. A few years ago these areas were thought to be quite without value, but today they, on account of the high quality and easy sale of Johnson Grass hay, are exceedingly valuable. Our cheapest hay grass, yet it contains more nutriment than timothy. Price, postpaid, 1 lb. 30c; 5 lbs. \$1.25. Not prepaid, 5 to 10 lbs. at 20c; 25 to 50 lbs. at 18c; 100 lbs. at 16c per lb.

**Paspalum Dilatatum, or Dallis Grass.** Plant March to June. Indicated in wet heavy lands where Bermuda is not good. Do not confound with Western grass called Dallas. Sow in spring, 8 to 10 lbs. per acre, by hand, roll or plank under on harrowed land. A perennial. The great permanent cattle pasture of Australia, where one acre supports one cow year round. Grows 2 to 4 feet high. Makes enormous pastures, or several green cuttings. Grows in clumps; its broad leaves are near the ground. Mixes well with Bermuda. Known, also, as Large Water Grass and Golden Crown Grass. Spreads by root stock and seed. Has a row-foot to see. In Florida it is used for cattle. Keep cattle off, but plants are well rooted and firm. Has double feeding value of Bermuda, and is a month earlier, and also later for grazing. Plowing kills it. This grass is spreading naturally now in Georgia. Price, postpaid, 1 lb. 65c; 5 lbs. \$3.00. Not prepaid, 5 to 10 lbs. at 50c; 25 to 50 lbs. at 45c; 100 lbs. at 42c per pound.

**Rhodes Grass.** (Chloris Gayana.) Price, postpaid, 1 lb. \$1.00; 5 lbs. \$4.75. Not prepaid, 5 to 10 lbs. at 80c; 25 to 50 lbs. at 75c per pound.

**INOCULATE all Clovers, Alfalfa, Vetches, Austrian Winterpeas, Cow Peas, Soy Beans, English Peas, Sweet Peas, etc.**

It is very necessary to inoculate the above mentioned seeds in order to get the best results. Inoculation aids in adapting the seeds to your soils.

FOR PRICES AND FURTHER INFORMATION SEE  
PAGE 47

Use NITRAGIN—the original Legume Inoculator—with the date and germ count on every can.

## Grasses—Continued

**Sudan Grass.** (Andro Sorg. Var.) A new African sweet sorghum hay grass, fine stemmed like Johnson. An annual. Plant spring or summer here within 80 days of frost. Three cuttings per season and 3 or 4 tons total per acre. Grows 5 to 8 feet, stools 20 to 40 per seed. Erect, leafy stem. Looks like Johnson, but is more leafy and sweeter. Root system like oats—never a pest. Makes 600 pounds seed per acre. In Florida made 3 tons first cutting; month after, was waist high. Sweet, green or curled; is eaten ravenously. Probably the original form of sorghum. A North Georgia man writes us: "Sudan Grass bought of you is certainly a wonderful plant. Made three full cuttings at the rate of 6 tons per acre." Wonderful hay grass. One we can recommend for every section of the South. Price, postpaid, lb. 25c; 5 lbs. \$1.00. Not prepaid, 5 to 10 lbs. at 10c; 25 to 50 lbs. at 8c; 100 lbs. at 6c per lb.

**Orchard Grass.** (Dactylis Glomerata.) (14 lbs. to bu.) Germinates within one week to two weeks. Sow two bushels to acre. Fall or spring. Excellent perennial. Commences spring growth in February. Ready for hay cutting in April; graze until hot summer. Early autumn starts new set of leaves, making rich pasture, remaining green all fall and winter. Mixes well with Red Top. A good shady woodland pasture. Price, postpaid, lb. 25c; 5 lbs. \$1.00. Not prepaid, 5 to 10 lbs. at 20c; 25 to 50 lbs. at 15c per lb.

**Natal Grass.** (Trachalaena Rosea.) Price, postpaid, lb. 50c; 5 lbs. \$2.10. Not prepaid, 5 to 10 lbs. at 35c; 25 to 50 lbs. at 34c; 100 lbs. at 33c per lb.



## Kirkland's Grass Mixtures

It has long been an established fact that Grass Seed when sown in mixture makes a far better yield of hay and also a better pasture than one variety sowed alone. We have made a careful study of Grass Mixtures, and in offering the following we have the ideal mixtures for the purposes for which they are recommended. Only the highest grade of seed are used and they are thoroughly mixed in the proper proportions to give the best results. In the Hay Mixtures we use only the Grasses which have proven the best to sow together and which mature and ripen together, which is, of course, necessary to get the best crops. While our pasture mixtures are composed of grasses which mature at different times, thereby giving a continuous pasturage, we recommend these mixtures with entire confidence, and we feel sure that they cannot be improved upon, but should any of our customers prefer different mixtures, we will be glad to mix the seeds in any proportion they may wish.

(These Prices Are Subject to Market Changes.)

### Kirkland's Grass Mixture No. 1

for Hay or Pasture.

Recommended for light or loamy upland, for either hay crop or grazing purposes, as it can be mown if desired.

Composed of—Orchard Grass, Perennial Rye Grass, Tall Meadow Oat Grass, Red Clover, Alfalfa.

These grasses mature and ripen together, making a splendid hay. Sow 30 to 35 lbs. to the acre. Present price, per lb. 20c; 10 lbs. at 18c per lb.; 100 lbs. \$16.00.

### Kirkland's Grass Mixture No. 2, for Pasture.

Recommended for light or loamy upland.

Composed of—Orchard Grass, Tall Meadow Oat Grass, Red Clover, Perennial Rye Grass, White Dutch Clover, Herds Grass, Alfalfa.

Sow 30 to 35 lbs. to the acre. Present price, per lb. 25c; 10 lbs. at \$22c per lb.; 100 lbs. \$19.00.

### Kirkland's Grass Mixture No. 3, for Hay.

Recommended for stiff, heavy or low lands.

Composed of—Timothy, Herds Grass, Mammoth Clover, Alsike Clover, Meadow Fescue.

These Grasses mature and ripen together. Sow 20 pounds to the acre. Present price, per lb. 25c; 10 lbs. at 20c per lb.; 100 lbs. \$18.50.

### Kirkland's Grass Mixture No. 4, for Pasture.

Recommended for stiff, heavy or low lands.

Composed of—Kentucky Blue Grass, Alsike Clover, Herds Grass, White Dutch Clover, Meadow Fescue.

Sow 30 to 35 lbs. to the acre. Present price, per lb. 25c; 10 lbs. at 22c per lb.; 100 lbs. \$19.00.



# Cow Peas

(Vigna Unguiculata) 60 lbs. to bushel

Farmogerm will double the amount of nitrogen stored in the soil when Peas, Beans and other legume seed is treated with it.

A great soil improver. Plowing under Cow Pea stubble increases the following crop by 25 per cent and plowing under whole vine, 40 per cent to 60 per cent. One ton Cow Pea hay contains 47 pounds nitrogen, 10 pounds phosphate acid and 20 pounds potash. There is an enormous increased use each year for Cow Peas. The South must abolish her Northern hay bill; also her guano bill; she must make two crops on her land in place of one per annum. All the above can be accomplished by using Cow Peas. In ground rich in nitrates Cow Peas will make big vines, but few peas. Yield in peas 10 bushels (in corn) to 15 bushels (drilled) per acre.



Cow Peas

**COW PEAS.** Columbia and Augusta are the largest Cow Pea shipping points in America. This house is one of the largest pea jobbers in the South. Plant from early spring to July 15th. Drill, broadcast or between hills in corn. Broadcast, 1½ bus., drill 3 feet rows 1 bushel, or in corn rows ½ bushel per acre. Early planting makes vines, late planting makes Peas. Makes an excellent mixture to plant with Soy Beans, Sorghums, Kaffir Corn, German Millet and Japanese Millet. April plantings can be hogged in July, June plantings in September and October. Their best habitat is about as here. Contains more nutrient as hay than Clover or Alfalfa. Grow in poorest soil. For hay, cut when Peas are forming and cure. Large yearly increase in use, and extending now to Northern States. Augusta often gathers by July 15th, a crop of New Era, Rams Horn, Iron and Brabham Peas. A big winter gathering money crop. Has long been a leading crop in the South for hay and pasture, and the green peas are becoming a human food throughout the summer season. In winter the dried peas are just as good as white navy beans. We handle all varieties of Cow Peas, but list below only a few varieties, in a retail way. Prices on Cow Peas fluctuate so much that we cannot quote in large amounts, but will gladly quote on any variety in any amounts. Write us for prices.

**Iron, also called Flint.** A small, hardy, grayish yellow, glassy or shiny pea known sometimes as Buckshot. Exploited widely by Agricultural Department as being immune to root knot caused by eel worms. This pea is, therefore, an invaluable addition to the pea world. A most valuable field pea. Being root knot resistant, this pea, in preference to others, should be planted in all peach orchards and in the Sumatra tobacco fields of Florida. Matures in about 100 days. April plantings mature crop about July 20th. Price, postpaid, quart 20c; peck 60c; bushel \$2.00; 10 bushels \$1.75 per bu.

**Brabham.** A hybrid of Iron, has the earliness of the Whippoorwill, and the wilt-resistant qualities of the Iron. At Washington, yield from Brabham 20 per cent more hay than Iron. A Florida grower says: "This is practically the New Era Pea combined with the wilt-resistant quality of the Iron Pea." Planted with fall grain will lie in the ground all winter and germinate next spring. This pea makes more vines than any known pea. Pods white and 6½ inches long, about 18 peas to the pod. Brabham pea vines will stay green until frost; can be "picked" six or seven times, and vine then cut for hay. Price, postpaid, quart 20c; peck 75c; bushel \$2.25; 10 bushels, \$2.00 per bu.

**Whippoorwill, or Speckled, or Shiny, or Bunch Speckles.** (Two Crop Peas.) Out of 220 varieties of Cow Peas tested by U. S. Agricultural Dept., they say that the best four are Whippoorwill, New Era, Iron, and Brabham. Old variety; bunch pea; upright; yellow pod, thick, and rots easily; brown-spotted pea. One of the earliest peas. Price, postpaid, quart 20c; peck 75c; bushel \$2.00.

**New Era.** A trifle earlier than Whippoorwill, and one-third smaller. A bunch pea, erect. Ripens in six to eight weeks, recommended where early maturing Cow Peas are wanted. Three crops were made one year at Georgia Experimental Station. One of our most valuable peas. Often matures in 60 days. Price, postpaid, quart 20c; peck 75c; bushel \$2.00.

**Unknown, or Wonderful.** Fine combination pea for heavy vines and stock peas. Stands at the head as per U. S. Agricultural Departments as "largest growing and most vigorous Cow Pea." Erect vines; late maturing. Price, postpaid, quart 20c; peck 75c; bushel \$2.00.

**Clay, also called Clay Bank.** An old-time variety grown in many sections of the South, and especially in Tennessee. Makes a growth of vine similar to the Unknown Pea, largely called for in the same fields of Louisiana. Large growing. Price, postpaid, quart 20c; peck 50c; bushel \$1.75.

## White Table Peas

Salable at much higher prices than ordinary Cow Peas. These dried peas are largely used in the South, and in other sections of the country as table peas.

**Ram's Horn, California Black-Eye.** Six weeks' Peas. Do not mature at once. Keep them picked. Should be adopted in the South to serve just as the White Yankee Bean serves in the North. Planted in April makes two crops. Larger and sweeter than Black-Eye, and quicker to mature. Vine is large, and the peas are fine yielders. Peas are curved up at both ends and sugary. Skin is a little rough. Price, postpaid, quart 30c; peck \$1.50; bushel \$5.00.

**Brown-Eye White Crowder.** Medium size white pea with versal table peas; very prolific and hardy; more largely grown in the South than any white pea. Keeps better than most varieties. An excellent table pea; medium late. Price, postpaid, quart 35c; peck \$1.00; bushel \$3.50.

**Little Lady.** Bunch; has a delicate vine; prolific bearer; very sugary. The daintiest, smallest and most highly prized of all the white peas for the table. Price, postpaid, qt. 50c.

**Conch, or Gentleman Pea.** A small, pure white table pea, bearer. Planted in April begin bearing late in June, and vines bear until frost. Plant 4x4 feet, two plants to the hill. Will run in every direction about 8 feet and cover none all the ground. Two quarts make enough for a family from June until frost. Price, postpaid, quart 50c.

NOTE—We haven't sufficient stock to offer in large amounts.

**Canada Field Peas.** Small, round, smooth, white-seeded pea. small extra early garden pea. Height of straw 48 inches. Resembles a pea that the Cow Pea does in the South. Plant in the South any time from September until March. Sown alone, broadcast like Cow Peas, at the rate of a bushel to a bushel and a half to the acre; will afford fine grazing within 90 days after sowing, or allowed to mature will produce a valuable crop of hay. Canada Field Peas and Burt Oats—sow bushel of each in February; oats hold up peas. Combination makes a perfect hay forage. Cut when oats just begin to turn. It makes large out-turn. Price, postpaid, quart 35c; ½ pk. 95c; pk. \$1.50. Not prepaidd, peck \$1.25; bushel \$4.35.

For Pot Plants, Flowers, Vegetables, etc., use

SWIFT'S VIGORO—A plant food and fertilizer

5-lb. cans.....	\$ .50
25-lb. sacks.....	1.75
50-lb. sacks.....	3.00
100-lb. sacks.....	5.00



# Soy, or Soja Beans

## (Glycine Hispida) (60 lbs. to Bushel)

Use Farmogerm cultures for legumes to increase production.

**The Soy Bean.** (Uses and Cultures.) Soys carry more varied uses than any other plant; lead all other crops in production of digestible protein—exceeding corn 700 per cent. After threshing must not be sacked or piled until thoroughly dry. A valuable and important forage and feed crop for Southern farmers. Carry superiority over Cow Peas; carry wide uses in forage pasture, hogging, soil renovation, hay, oil, cake and canning (dry peas). Resist drought and cold better than Cow Peas. Can plant earlier than Cow Peas. For green manuring broadcast. For hogs, broadcast last cultivation of corn. Sow spring or summer. Sorghum, Sudan or Cow Peas all make good mixtures with Soys. Yield 20 to 30 bushels per acre. Weevils do not attack. For hay or green manure, broadcast 1 to 1½ bushels per acre, or drill. (See special culture under some varieties as listed.) Sow after oats for hay and make 2 to 2½ tons hay per acre. Broadcast at last corn plowing in corn and the popped beans will lie on ground till February for hogs. Fine for hogging. For forage cut the vines when the beans just begin yellowing, save and feed this combined ration of beans and vines. Sow with Cow Peas, to hold the vines up off the ground, and to enable them to be cut and cured. Sow at the rate of half a bushel of Soys to one bushel of Cow Peas. Furnishes a balanced ration (vines and beans) in one crop.



Soy, or Soja Beans

## Laredo Soy Beans

**Laredo Soy Beans.** An absolutely new Soy Bean carrying remarkable sensational characteristics. The new Laredo Soy Bean, after thorough test, has proven to be one of the best all round Soy Beans and the only one known to be positively immune to root knot and nematode. The Laredo differs from any other variety. As the plants get up a few inches high they stool out like oats and each individual plant sends up from six to fifteen very fine branches which makes it one of the very best of hay beans, and unlike any of the other varieties of soys. The mere fact of this bean being the only variety to be positively immune to root knot will cause a great demand. It is similar in some respects to the O-Too-Tan in regard to the size of seed. The seed, however, are a little smaller, black and flat. Even with this smallness of seed it is one of the most prolific varieties known, demonstrating this fact at the Georgia Experiment Station and every station where tried. As a bean producer it has no equal; as a soil improver it can only be equalled or surpassed by the O-Too-Tan. The O-Too-Tan will perhaps produce more hay, too, to the acre. One of its great advantages is its earliness. The one drawback to O-Too-Tan is that it is apt to fall and recline. The Laredo, on the other hand, can be planted from the middle of May until July 10th. Per quart 40c; peck 75c; bushel \$2.50.

Seeds where not specified as being postpaid, charges to be paid by the customer.

## O-Too-Tan Soy Bean

Destined to Revolutionize Southern Agriculture

Entirely different from all other Soy Beans. The coming finest-stemmed legumes has its maker in the South.

**A Great Hay Maker and Legume.** This is the most remarkable and most valuable addition to Southern agriculture for many years. A Hawaiian bean. As a soil renovator or improver no other legume can begin to compare with it and that its nitrogen-gathering ability is truly amazing. The nodules (the little bumps on the lateral roots) gather nitrogen from the air and add a wealth of value to the soil. No other plant can equal it in the matter of aggressive nitrogen-gathering root system. It is doubly superior to other Soy Beans, Cow Peas or Velvet Beans. Roots are from three to five times the size of other legumes and an individual root will carry eight to ten times the nodules. This tremendous root system answers a double purpose; besides gathering bacteria its depth of root makes it practically unaffected by drought. O-Too-Tan grows entirely different from other Soy Beans; the main stem is erect, 3 to 4 feet high, and from it running branches extend as far as 7 or 8 feet. It is not, however, a climber like the Velvet Bean. Planted in 3½-foot rows, it will make one mass of foliage, as shown in the photo on this page. The bean pods are borne at the leaf joints three to five beans at each one and make at the rate of perhaps 40 bushels per acre. Seed are small and black in color. The color of the leaves and stem is light green even after they are dried.

**CULTURE.**—From April to June, may be planted after Oats; drop 3 or 4 seed every 18 inches in 3 foot rows. Cover light, not over 2 inches deep. Plant ½ peck per acre. Work two or three times with shallow cultivator. An application of 200 lbs. acid phosphate per acre will greatly increase yield. Fertilization is not necessary, but as with all other crops, the results are noticeable and worth while. In planting with corn sow in the same drill along with the corn, 4 pounds per acre. They will not climb on the corn stalks as do running velvet beans. For hay crop beans may be planted in 2½ foot rows. Per qt. 50c, postpaid. Peck \$1.50; bushel \$4.50.

## Biloxi Soy Bean.

(One of the Wonders of the Soy Beans.) A Mississippi government tester after 7 years testing 100 China Soy types, discarded 99 for this bean. The government's object was to get the biggest bean and forage producer among the Soys. This without doubt they have done; much larger growing than other types. Usually grows from 3 to 6 feet, according to the land. Widely branching and with exceedingly large foliage. This extra foliage gives great advantage here for the silo, also for soil renewing when turned under and for hogging; excellent for using in orchard and pecan groves. Its stems are large, but hollow, and cures easily. Hay is no coarser than Cow Pea Hay.

**CULTURE.**—Plant in drill 1 peck per acre; broadcast 1½ bu. For maturing seed plant in April or May. Requires longer season than older varieties. Cultivate like O-Too-Tan. Price, postpaid, quart 40c. Not prepaid, Pk. 80c; 1 bu. \$2.75.

## Mammoth Yellow Soy.

The most popular of the Soy Beans. More largely planted than other varieties. Has produced in North Carolina and Tennessee an average of 40 bushels per acre. A medium late variety and usually a sure crop. The immature green bean seeds make a delicious cooked vegetable akin to green peas. Price, postpaid, quart 25c; pk. 75c. Not prepaid, pk. 50c; 1 bu. \$1.75.

## Mammoth Early Black Tarheel.

Black, notably free from disease and insect enemies. Valued because it makes a creditable yield of hay and beans in a short growing period. The Tarheel Black Soy is earlier than the Mammoth Yellow, and gives more prolific growth and larger foliage. Price, postpaid, quart 30c; pk. 50c; bu. \$1.75.

## Brown Soys.

A brown bean about as large as a Cow Pea, but has white tracings over it. They mature about like the Yellow Mammoth, but are more prolific, making a larger growth of vines and a better yield as regards the bean. Price, postpaid, quart 45c; pk. 75c; 1 bu. \$2.50.

## Mung Bean (Not a Soy)

This is a wonderful new bean which has been offered in the South for the past few years at very high prices. It is not only an exceedingly good hay crop, but a wonderful soil improver and, we believe ranks next today to the O-Too-Tan and Laredo Soy Beans in this respect. It requires only a small amount of seed to plant an acre, about five pounds is sufficient. Best results are obtained when planted in 2½ to 3 foot rows, 4 to 5 inches in the drill. Price, postpaid, 1 lb. 30c; 2 lbs. 50c; 10 lbs. 20c; 100 lb. lots 15c.

# Velvet Beans

**The Soil Builder of the South—South Georgia's Only Salvation**  
**We Can Supply Any Variety Beans Grown, But We Are Listing the Most Popular Varieties**

**Inoculate this seed with Farmogerm**

**USES AND CULTURE**—(1 bushel, 60 lbs. shelled; 100 lbs. of pods sell out about one bushel beans.) We are large dealers and contracting growers, and the leading exploiters of new types in the South. Velvets are the most vigorous and rank growing forage legume in the United States, and a most important crop, carrying wide uses. The early types are adaptable wherever cotton is grown. A big cash crop in boll weevil lands. A crop that will make the South the center of the United States cattle and hog industry. Georgia and Alabama alone now grow four or five million acres in Velvets. Have an immense surface root system. The dry pods can be picked by hand (about 700 pounds a day) in winter after frost; and well dried they keep in pod indefinitely, in barn; and are sold largely in car lots loose for cattle feeding. One acre yields one ton dried pods, shelling out 20 bushels. An immense industry in the grinding of Velvets in the pod as a commercial cattle feed—making a cheap concentrated feed—one pound equalling one pound wheat bran, or one pound corn on cob, or half pound best cotton seed meal. Or feed cattle and hogs Velvets in pod, whole or dry; or for dairy, steam them. The green undried pods are edible and relished. It can be grown as a subsidiary to corn at practically no expense, and is worth about as much per acre as the corn grown along with it. The only crop grown in the South practically free from disease and insect damage. Many soak beans before cattle feeding.

**Mississippi Black Velvet.** Has two remarkable characteristics. First, its extreme earliness, being earlier than all other velvets, and thus being adapted to states and latitudes where velvet bean growing today is impossible. Second, its heavy fruitage in beans, which are fuzzless and it is especially indicated for bean feeding. The bean is black, flat and about the size of the Osceola. Both bean and pod are softer than other varieties and can be eaten by stock without soaking. This thinness of hull and softness gives it quite an advantage and makes it more valuable and differentiates it from all other types. The pod being fuzzless, it does not sting in gathering, beating too, the Osceola in this respect. It has a tender pod where the Osceola pod is hard and woody, which places the Osceola at a disadvantage in feeding. Four to five beans to each pod. It is very prolific. We believe it will be tried out in largest ways in latitudes where velvet bean growing today is impossible. For our northern latitudes this may prove to be a wonderful economic factor. This bean carries greater value because its extra amount of beans can either be hogged or gathered and placed in the barn and fed. Per acre this bean carries more protein feeding matter than any of the other types. In offering this bean our one hope is that it will be of as great a value to agriculture in the South as other varieties we have listed. We advise all farmers to make a place on the farm for the Mississippi Black Velvet. Try it out thoroughly, if only in a small way. Price, 1 qt. 35c. Postpaid, pk. 75c; bushel \$2.00.

**Osceola Velvet Beans.** A new hybrid from the Florida Experiment Station. Planted in Florida in May, were reaped in late September. The leaves shed about October 1, and this makes the bean pod and the corn ear gathering easy. Bean picking is less costly by \$2.00 a ton. Will make 20 per cent more beans than will the 100-Day. The blooms are mostly purple. Where beans in the pod for grinding up are wanted, this without doubt is the best coming bean and will be in enormous demand. Leaves fall about October 1st and mulch the ground very heavily. The vine out-turn is about the same as 100-Day. No fuzz on hull. Does not pull down corn as badly as other types. Plant 24 inches in row with corn. Our illustration shows 216 pods to the one stalk of corn. One single bunch weighed 1½ pounds green and carried 23 pods, 5 beans to a pod. A trifle later than "Georgia 100-Day varieties" and about three weeks earlier than Chinese. Shatters more than fuzzy varieties. The beans are speckled like the 100-Day, but twice as large as 100-Day. Pods are 5 inches long, carrying usually 5 big beans. The bunches often carry as many as 25 pods. Big pods, big seeded, big forage out-turn, and with earliness the Osceola Bean carries many advantages. These beans may carry a trifle less feeding value than 100-Day, and may not be quite as palatable to stock, yet they carry no stinging to the picker and the picker can pick 700 pounds while he picks 500 of the 100-Day. Price, postpaid, 1 qt. 40c. Not prepaid, pk. 75c; bu. \$2.00.

**90-Day Speckle Running Velvet Beans.** The first early bean that was found practical. Introduced and named by us. Originated in Georgia, sometimes called the Georgia Velvet Bean. Bean resembles the late Florida Speckles, but is larger and lighter in color. A most valuable early Velvet—vines and beans worth double Cow Peas. Will hang on the

vine all winter without bursting or decaying. Can plant after oats and use in time before fall planting time, as a quick September grazer, or for turning under for soil manuring. These beans in the hull are being largely ground up alone or in connection with corn in the shuck, making a perfect ration in Southern cattle food. Plant 3 feet apart in corn-middles in 5-foot rows; or alternate with corn in the row. Read foregoing Velvets, Bean Culture and Uses. Make 1 ton of beans in the pod per acre, or 20 bushels shelled beans per acre planted with corn. Attracting wide attention and seems to solve for all sections the Velvet Bean question. One bunch at Augusta showed 24 pods with 112 beans. The big bunches are easily gathered. This bean is now more universally grown than all other varieties. Price, postpaid, 1 qt. 30c. Not prepaid, peck 60c; bushel \$2.00.

## Millet

**NOTE**—By planting Millets as listed below our farmers can easily be hay sellers instead of buyers. We cannot afford now to buy feed stuff. It would be wise to try these Millets if only in a small way.

**Brown Top Millet.** (*Panicum Fasciculatum*.) This we believe grows long wanted. This for summer grazing in the South equals even rye as a fall and winter green grazing crop. The only millet or grass that we know can be grazed constantly during the dry summer months without complete destruction. Possibly better than Sudan Grass for hay and will produce more, if not as much cured hay per acre. Can be cut two or three times during the season and often makes 5 or 6 tons per acre. This millet stools very heavily, averages 25 to 30 stems often from one seed. This millet too, is a wonderful producer of seed and after using of the first crop for hay produced 2 tons per acre, has made 1,500 pounds of seed.

**CULTURE**—Plant in drill 5 to 6 pounds to acre in 18 to 24-inch rows. Broadcast for hay about 12 pounds per acre. If for seed crop alone 3 to 4 lbs. is sufficient for an acre. When planted in drill if cultivated with sweep once you get much quicker growth. Price, postpaid, lb. 50c; 5 lbs. \$2.25; 10 lbs. \$4.00. Not prepaid, 5 to 10 lbs. 35c; 25 to 50 lbs. 30c per pound.

**Georgia Pearl, or Cat-tail Millet.** (*Pennisetum Specatum*.)

Known also as Pencillaria, Horse Millet and Maud's Wonder Forage Plant. This millet is well known and has been in general for the South for many years. The demand is always more than the supply. No millet makes so much green forage as this. Can be cut six or seven times in one season. A most valuable crop for dairymen, and all farmers should plant a small acreage in this millet. Total of three cuttings at the Georgia Experiment Station produced 52,416 pounds of forage per acre. Plant in spring drilling 10 lbs. per acre in 2½ or 3 foot rows, cultivate regularly. This is a quick maturing non-saccharine millet. Not used as a dry hay. Price, postpaid, lb. 30c. Not prepaid, 5 to 10 lbs. 16c; 25 to 50 lbs. 12c per lb.; 100 lbs. at 10c per lb.



Japanese Millet



## MILLETS—Continued

**Golden Millet.** (Chaetochia Germanica.) (Fifty pounds to bushel.) Millet makes an enormous yield of feed. Must be sown early, about one bushel per acre, and the crop cut while in bloom, before the seed hardens in the head. Sow when weather gets warm in May or any time during the summer until the end of July. Two crops have been seeded and grown during the same season on the same land; good hay combination with Cow Peas. Golden Millet is one of the quickest maturing plants that we have as a hay crop. Could plant as late as the middle of August and make a pretty good crop if the land is rich. It makes a fair quality of hay. For hogging plant in March and April and cut in June. When cut the plant does not grow out again. Price, postpaid, 1 lb. 25c. Not prepaid, 5 to 10 lbs. at 15c; 25 to 50 lbs. at 12c per lb.

**Japanese Millet.** (Panicum Crusgalli.) (32 lbs. to bushel.) Grower says: "In five weeks from seed, was 4 feet high and heading well." Rank grower, bushy head, matures as high

as Canada. Superior to Golden Millet; stalks much thicker than Golden. Also called Billion-Dollar Grass, Barnyard Millet, Goose Grass, Louisiana Wild Rice, Blue Duck Food. Can be broadcast and cut for hay 3 to 4 times. Mississippi Agricultural College says: "Produces per acre 36,000 lbs. of fodder or makes 12,000 lbs. of cured hay, or 67 bushels of seed. Hay surpasses a good corn fodder. Annual. Sow from April to August 1st, 32 lbs. per acre. Makes crop in 6 to 8 weeks. Planted August 1st, was three feet high and finely headed out October 1st. Stools heavily. Cut for hay just before seed heads form. Seed head large, 6 1/4 inches long. In rich lands grows 3 1/2 to 4 feet high, very heavy in growing; heavy bladed; grows in upland and is at home perfectly in wet, black land; under water sometimes two weeks, a fine producer on waste wet lands. Japanese Millet in 32 days, as planted at Augusta, showed full grown seed heads and plant 5 1/2 feet high with 8 or 10 stools per plant. Price, postpaid, 1 lb. 30c. Not prepaid, 5 to 10 lbs. 20c; 25 to 50 lbs. 18c per lb.

## Peanuts

### A Good Money Crop for the South

The Boll Weevil Will Make This Crop What It Should Have Been Years Before

**THE PEANUT AND ITS CULTURE AND USES.** (Arachis Hypogaea.) An annual legume. Also called Pinders, Goobers and Ground Peas. One of the big cash crops in this country. Tremendous amounts are being grown.

Best soil, light sandy loam. Level culture best, prepare ground with disc harrow. Plant running peanuts in 36-inch rows and 12 inches apart in the row; plant 1 1/2 inches deep.

Gather White Spanish with a Peanut point, mold board of plow removed. Stack immediately without sunning around an eight-foot pole. Peanuts lying in circle around pole. Eight inches above ground nail to pole two crosspieces at right angles.

**White Spanish.** (30 lbs. to the bushel.) Plant two bushels in shell (whole shell) per acre. Use 400 pounds Acid Phosphate per acre. Line land one ton per acre. Plant in the row. From 40 to 60 bushels should be made per acre, and the residue of hay sells for one-half the cost of the Peanut crop, being usually one ton of excellent hay. The most valuable Peanut of all the Peanuts for oil. In tremendous use as ground up by oil mills for oil and cake. White Peanuts in pods yielding 80 gallons of delicious sweet oil and yielding also 750 pounds of the best feeding cake. Supplant cotton on sandy lands as a Southern money crop. As easily sold as cotton. The oil and cake are superior to that from cotton seed. Peanut meal makes hard hog flesh. Matures in 110 days. Small pods, strong growing upright stems, abundant and heavy foliage, pods cluster at base of plant and attach to the roots. Plant April to July 15th, or following after oats. Hogs can be tamed or starved on this. Plant, too, in late corn rows between the stalks. Georgia correspondent writes that on four acres in 30-inch rows planting one whole pod to the hill, 8 inches apart, planted June 10th, dug October 23rd, kept in shock until November 10th, and then hand-picked at a cost of 10c per bushel, he made 230 bushels of Peanuts on the four acres plus \$60.00 worth of pure hay. About 460 unshelled Peanuts weigh a pound. Price, postpaid, 1 lb. 25c. Not prepaid, 5 to 10 lbs. at 12c per lb; 25 to 50 lbs. at 9c; 100 lbs. at 7c per lb.

**North Carolina Runners.** (24 lbs. to bushel.) Known as African, Wilmington and Florida Peanut. A running Peanut, smaller than the Virginia Running or Bunch, but somewhat larger than the White Spanish. The great hog peanut. In South Georgia, Alabama and Florida are used in tremendous amounts for hog purposes, as the Peanuts do not rot as lying in the soil through the winter. Hogs in the field do all the gathering. Peanuts fill the whole pod and contain no pods. Sometimes vines cut for hay, and nuts then hogged. Yields 60 to 90 bushels per acre. A medium podded variety with very heavy dark green foliage, stems creeping, sometimes having a spread of 3 or 4 feet; pods scattered along procumbent stems and not adhering well in digging; a little larger than the Spanish variety, usually containing two peas. Price, postpaid, 1 lb. 25c. Not prepaid, 5 to 10 lbs. at 12c; 25 to 50 lbs. at 9c per lb; 100 lbs. at 8c per lb.

**Valencia.** (24 pounds per bushel.) A Spanish Peanut sometimes called Three and Four to Pod. Do not confound with Tennessee Reds. Rich in oil. Attach to the roots and are easily pulled up along with the vines, but being heavier than the White Spanish, they are much easier to detach from the vine. Vines are upright. The foliage of the Valencia is fully one-fourth more, as to forage and hay than White Spanish. Heavy producers; 80 bushels per acre here at Augusta; exceedingly profuse in hay. About 260 pods weigh a pound. Perhaps two weeks later than White Spanish. Are greatly to be desired, and only a minimum amount at any time can be found for sale. Can be easily planted after oats, making a good crop. Of a special fine flavor, thin pod and easy to shell. Cultivate flat; each joint sends out 1 to 4 rootlets that may take root and cover ground and make nuts. The price here at Augusta made 15¢ bushels. The standard fancy parching peanut. Good in red lands also. Growers for the parching trade should hang the nuts and send to market only Peanuts containing 3 and 4 to the pod, and all sound, and eliminate pods carrying only 1 or 2. Pick when they are ripe; they sprout in the ground sooner than other peanuts. The highest priced of all peanuts. Price, postpaid, 1 lb. 30c. Not prepaid, 5 to 10 lbs. at 15c; 25 to 50 lbs. at 12c; 100 lbs. at 10c per lb.



White Spanish Peanuts

**Tennessee Red.** (24 pounds per bushel.) Run "3's and 4's." Very hard shell, and hard to crack same with fingers. Universal in Tennessee for red land peanut. A bunch pea, bright red, one ton per acre, comes from 3 to 4 peas to the pod; shell thick and tough; well adapted to hog raising, as peas will stay in the ground all winter and come up in the spring. Better adapted for hog than human use. Bunch tops, and peanuts can all be pulled up at one time with the hands and afterwards the hay can be baled and the peanuts taken from the roots. Easily handled, yields well; earlier than Virginia. Smaller and harder shells and must not be confounded with Valencia. 264 pods weigh about 1 pound. Price, postpaid, 1 lb. 30c. Not prepaid, 5 to 10 lbs. at 14c; 25 to 50 lbs. at 12c; 100 lbs. at 9c per lb.

**Virginia Runner.** (22 pounds to bushel.) 120 days in maturing; resembles North Carolina in growth, except pods are larger. A large-podded variety with heavy foliage; stems creeping; pods scattered along procumbent stems and not adhering well in digging; pods and peas similar to those of the Virginia Bunch Peanut. This variety is harder to cure than the bunch types, because the pods are scattered along the stems and cannot be well protected from the weather as the varieties with nuts clustered near the base of the plant. Is usual Norfolk parching peanut. Sold for parching. Price, postpaid, 1 lb. 25c. Not prepaid, 5 to 10 lbs. 12c; 25 to 50 lbs. 10c; 100 lbs. 9c per lb.

**Virginia Bunch.** (22 pounds to bushel.) Plant as late as first of June in Virginia and mature by frost. Exceedingly productive. Stems upright; pods attach to the roots of plant, usually 2 to the pod. Peas light brown, pods bright and clean, and adhere well to the plant in digging. Pods and peanuts quite large. A large-podded variety with rather light foliage; pods clustered about the base of the plant. Have a lower oil content and a smaller proportion of meats to shell than the Spanish; should not be grown for oil purposes, used largely by parchers. Price, postpaid, 1 lb. 25c. Not prepaid, 5 to 10 lbs. 14c; 25 to 50 lbs. 12c; 100 lbs. 9c per pound.



# Miscellaneous Field and Forage Seed

## Georgia Chufas

**Cyperus Esculentus.** (44 pounds to bushel.) Hognut; Ground Almond. (See Cut.) Annual Georgia-grown seed. Demand always consumes supply before June 1st. One of our growers recently made 1,000 bushels on 10 acres. Another made 157 bus. on one acre planted July 4th. These attach to the roots. The vines can be pulled up for saving seed and seven-eighths will be found attached to the roots. The vines after being pulled up should be allowed to thoroughly dry for several days. For feeding value an acre of Chufas equals 40 bushels of corn. There is no better hog crop known. For hog purposes, plant from April to May 10th, turn in hogs September 15th to January 15th. Mature about October and will lie in ground without rotting until eaten. Grow best in drill, rows 2½ feet apart. Do not bed or hill up; give two plowings and hoeings. If you get a poor stand, pull out shoots and transplant them. Chufas are frequently matured and harvested within 90 days after planting. Plant 1 peck to acre, 10 inches in drill. Price, postpaid, 1 lb. 40c. Not prepaid, ½ pk. 60c; 1 pk. \$1.00; bushel \$3.50.

## Jerusalem Artichoke

**Helianthus Tuberosus.** Georgia-grown. Cut artichoke, each piece with two or three eyes. Plant the same time as Irish potatoes 18 inches in drill and with rows 4 to 5 feet apart; don't work after plants shade ground. Fine hog crop; produce in rich land 300 bushels per acre. Even in 5-foot rows run from row to row and make tubers—the underground being a network of artichokes. Will stay in ground for gathering at any time all winter, and not freeze. Productive on poor soils; cultivation is inexpensive. Can be had like sweet potatoes, and then transplant. Turn in hogs on field in fall. We sell by measured bushel in January and February—about 50 pounds. Price, ½ pk. 40c; 1 pk. 75c; 1 bu. \$2.50.

## Dwarf Essex Rape

BRASSICA NAPIUS

The universally grown forage crop in England, Germany and Canada for pasturing lambs, sheep and hogs. Drill 8 pounds per acre in 3 ft. drills in spring or fall, through October, 15 pounds broadcast in damp lands, or drill in rich uplands. Many hog growers use Bermuda Grass in summer and use for a winter grazing proposition solely rape. Florida Experiment Station says: "We have raised as high as 22 tons to the acre in a single year. Fifteen tons of green matter can be expected almost every year. Deserving of large use for green cattle feed. Does not make milk 'tasty.' Can be grazed cut, three or four times. Never cold-killed; fine for green chicken feed. The plants may be cut 4 inches above the ground, which enables them to throw out new shoots. Usually sown in early fall or spring in the South. At Augusta can be sown and cut almost every month in the year except in summer months. Splendid as a human food—cooked like Spinach and a tender plant can be cut over and over again. It makes one of the very finest of salad greens. Price, postpaid, 1 lb. 25c; 5 lbs. \$1.00; 10 lbs. \$1.80. Not prepaid, 5 to 10 lbs. at 12c; 25 to 50 lbs. at 10c; 100 lbs. at 7c per lb.

## Beggar Weed

DESMODIUM TORTUOSUM

The Clover of Florida. Legume. Grows 4 to 8 feet high. Sow 10 lbs. to acre in drill, or broadcast fifteen pounds per acre; barely cover seed or sow in June on top of ground in corn rows at last cultivation; matures in 80 days; can cut several times or pasture late summer and fall; cut for hay at blooming time with mower, reseeds itself. Indigenous to Florida. Comes up in cultivated fields about first of June. In worn pine land as a renovator of soil it has no superior. Fine for cutting. A wonderful cattle fattener. For hogging, broadcast 10 pounds per acre, graze when one foot high up to and through August and September; will rapidly take possession of land and come in as a volunteer crop exactly like crab grass. A single cultivation of the soil after Beggar Weed starts will kill it out so that it will never become a pest. Florida Demonstration farm planted June 6th, harvested 6,300 pounds hay August 6th. Wonderful for feeding; 21.7 per cent protein, 30.20 per cent carbohydrates, and 2.30 per cent fat. In Florida, an orange grove cover crop. If cut 2

feet high, will come out again, making two cuttings as far north as North Carolina. Planted in game preserves for attracting and feeding quail. Crop almost a complete failure. Price, postpaid, 1 lb. 60c; 5 lbs. \$2.80; 10 lbs. \$4.90. Not prepaid, 5 to 10 lbs. at 45c; 25 to 50 lbs. at 40c.

## Russian Sunflower

Sow at cotton planting time 10 pounds per acre, 3 foot rows, 12 to 18 inches in the drill. Cultivate like corn. Great improvement over the small Sunflower. Some are 18 inches in diameter. In Russia are used for oil. Known here as the best of all poultry foods, 40 to 50 bushels grown per acre. In cities it is the parrots' feed. Not only a valuable seed to plant on farm, but every inch of waste space around the fences and yard and field ditches should be planted in this seed. It will not only improve and beautify the place, but will produce large amounts of the most valuable feed. Price, postpaid, 1 lb. 25c; 5 lbs. \$1; 10 lbs. \$1.80. Not prepaid, 5 to 10 lbs. at 12c; 25 to 50 lbs. at 10c; 100 lbs. at 8c per lb.

## Bene

(SESAME)

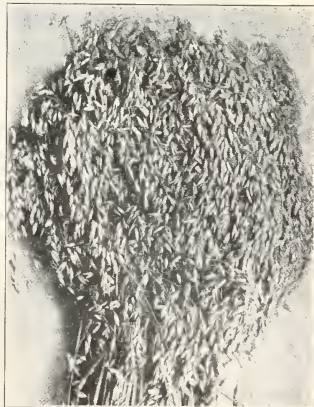
Hardy annual. Its rich, oily seed make oil and nutty food for putting in bread, cakes, candles and sausage. Plant in waste places and woodland lots in spring. Each 5-foot plant produces 30,000 seed. Greedily eaten by birds and poultry. Cattle do not eat the plant's foliage. Greatest known attracter and feeder of birds in fields, parks and game preserves. Its sudden bursting pods give the magician his "Open Sesame." Every farmer who wishes to attract and feed birds should sow Bene in all waste places. Bene reseeds itself. This reseeding is a great help to those who plant it and who wish a return of it year after year. Our seed are Southern grown. Imported seeds rarely germinate, and come dwarf. America imports yearly thousands of tons from China, Turkey and India. All ripening seed scatter. It is a pretty plant, growing 5 or 6 feet, and always looks fresh and tender. It yields about 500 to 700 pounds per acre. It is grown just about like cotton and so cultivated. Plant is 6 feet tall. Price, postpaid, 1 lb. 40c; 5 lbs. \$1.75; 10 lbs. \$3.00; 50 lbs. at 26c per lb.; 100 lbs. at 25c.

## Oats

**Seed Oats.** (32 pounds to bushel)—CULTURE. Usually two bushels of oats are sown per acre broadcast. Drilling requires one and a half bushels per acre. Can be planted here up to March, and as a rule make good crops. The most popular oats for spring planting are Fulghum and Burt.

## Fulghum Oats.

Practically two to three weeks earlier than all of our rust-proof oats. It is absolutely beardless; drills and is a safe horse feed proposition. The best and most remarkable of the Southern oat crops. This oat has made heavier than winter-planted oats, planted as late as February and March. One of the best spring oats known today. See Catalog. Price, bushel 65c; 5 to 10 bus. at 60c; 25 bus. or more at 55c per bu.



Fulghum Oats

# Miscellaneous Field and Forage Seeds—Continued

## OATS—Continued

**Burt Oats.** Known distinctly as spring oats. Better and safer than all other oats except Fulghum. Before the introduction of the Fulghum Oat, this was practically the only spring safe oat. Price, 1 bu. 65c; 5 to 10 bus. at 60c; 25 bus. or more at 55c per bu.

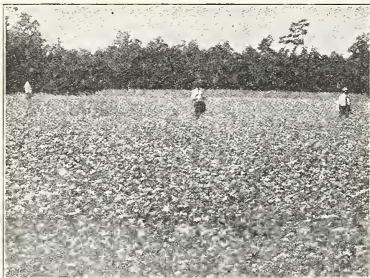
## Barley

**Georgia Spring Beardless Barley.** (48 lbs. to bu.) Sow in August and cut in October, or sow for spring use in February through March; ripens in June or before; makes fine fall grazing. Makes a big yield of seed, sown in February or can be cut three times up to May 30th, cutting at last waist high; ripens earlier than bearded and is taller, larger and stiffer. Being beardless, is easily handled and can be fed to the stock without danger, same as oats; cattle very fond of the hay; heads are six-rowed; hulls remain tight after being cut; long heads; ripens 60 to 90 days. February planting makes quickest and best of all spring forage; better and safer than spring planted oats. Sow 1½ bushels to acre. Price, not prepaid, pk. 50c; bu. \$1.75; 5 bus. or more at \$1.50 per bushel.

## Buckwheat

**Japanese Buckwheat.** (48 pounds to bushel.) Should be more generally sown in the South for poultry feed. Sow in early spring or late summer; matures in about two months. The Japanese is quite an improvement over the old varieties. Grows on almost any soil. Fine for attracting and feeding birds. Price, not prepaid, peck \$1.25; bu. \$3.25.

**Silver-Hull Buckwheat.** This variety is well-known; gives excellent results wherever planted. Price, not prepaid, peck 85c; bushel \$2.25.



Field of Buckwheat

## Rice

**Georgia Upland Rice.** (44 lbs. to bushel.) Can be planted where other varieties will not grow. For lowland culture get U. S. Farmers' Bulletin No. 417. The food of one-half the population of the earth. Plant March 15th to June 15th. one bushel and ROLL for uplands, in 20-inch rows. For farmers who have lowlands that can be plowed, but are too wet for other purposes, the growing either for home use or for selling to mills can be profitably done. It is better to be planted in 30-inch rows, drilled in. Requires one bushel per acre. Threshed rice straw makes (baled) fine hay. Yields 25 to 75 bushels per acre, and one to two tons of dry straw for baling. Price, not prepaid, 1 pk. \$1.00; bushel \$3.00.

**Blue Rose Rice.** Originated in Louisiana. The largest Georgia rice yet introduced. The stalk is sturdy, and of blue-green color. The grains are full and heavy, and the plants scatter less than any known rice. Hull is same color as white rice, but the grain is shorter, more blunt, and of much greater thickness. Price, not prepaid, 1 pk. \$1.00; 1 bushel \$3.00.

**Carolina White.** This is the old standard rice for upland use. This rice is planted largely on the South Atlantic Coast. Is quite an early species; very pearly and bright when pounded. Price, not prepaid, 1 pk. 90c; 1 bushel \$3.00.

## Tobacco Seed

**CULTURE.** Sow in bed January and February about 4 ounces per bed of 10 ft. Transplant about June, 3½ to 4 ft. each way. Get Bulletin "Tobacco Culture," Clemson College, S. C.

### Yellow Pryor

Pkt. 10c; oz. 35c; ¼ lb. \$1.25; 1 lb. \$4.00, postpaid.

### Improved Long Leaf Gooch

Pkt. 10c; oz. 35c; ¼ lb. \$1.25; 1 lb. \$4.00, postpaid.

### Improved Yellow Oronoko

Pkt. 10c; oz. 35c; ¼ lb. \$1.25; 1 lb. \$4.00, postpaid.

## FLOWER POTS, SAUCERS AND FIBREWARE

### Standard Earthenware Flower Pots

Full inside measurement. No charge for packing. Six at dozen rates; 50 at 100 rates; 500 at 1000 rates. Flower pots and Bulb Pans can not be sent by mail, but only by express or freight, at customer's expense.

Sizes	Each	Doz.	100	1000	Sizes	Each	Doz.	100	1000
1½ in.	\$0.02	\$0.18	\$1.02	\$9.56	5½ in.	\$0.08	\$0.81	\$6.08	\$57.38
2 in.	.02	.18	1.02	9.56	6 in.	.09	.98	7.29	68.85
2½ in.	.02	.18	1.16	10.84	6½ in.	.13	1.30	9.72	91.80
3 in.	.02	.18	1.31	12.75	7 in.	.15	1.62	12.15	114.75
3½ in.	.03	.24	1.76	16.58			Each.	Doz.	
3¾ in.	.03	.29	2.16	20.40	8 in.	.....	\$0.22	\$2.34	\$17.55
4 in.	.04	.36	2.70	25.50	9 in.	.....	.33	3.60	27.00
4½ in.	.04	.36	2.70	25.50	10 in.	.....	.45	4.86	36.45
5 in.	.06	.49	3.65	34.43	11 in.	.....	.66	7.20	54.00
5½ in.	.07	.65	4.85	45.00	12 in.	.....	.91	9.90	72.00
					14 in.	.....	1.48	16.20	121.50

### Neponset Waterproof Paper Flower Pots

	Doz.	Per 100	Per 1000
2½ in. pots.....	\$0.11	\$0.50	\$4.40
2½ in. pots.....	.13	.60	5.00
3 in. pots.....	.18	.80	6.70
3½ in. pots.....	.20	1.00	9.00
4 in. pots.....	.25	1.30	11.40
5 in. pots.....	.30	2.00	17.75
6 in. pots.....	.45	2.70	21.75

Send for Circular and Sample.

### Flower Pot Saucers

Sizes	Each	Doz.	100
3 in. ....	\$0.03	\$0.32	\$1.62
4 in. ....	.03	.27	2.05
5 in. ....	.04	.36	2.70
6 in. ....	.06	.54	4.05
7 in. ....	.07	.72	5.40
8 in. ....	.10	.90	7.43
9 in. ....	.14	1.35	10.13
10 in. ....	.15	1.62	12.15
11 in. ....	.19	1.98	14.85
12 in. ....	.23	2.76	18.23
14 in. ....	.37	4.05	30.38

## RICHMOND STYLE CEDAR PLANT TUBS

Size	No. 4.	Each.....	\$0.75	Size	No. 8.	Each.....	\$1.65
Size	No. 5.	Each.....	.85	Size	No. 9.	Each.....	1.90
Size	No. 6.	Each.....	1.05	Size	No. 10.	Each.....	2.10

## THERMOMETERS

We carry but one grade of thermometers, the best procurable. Tin case, Japanned, 8 in., \$2.00; 10 in. .... \$2.25  
Copper case, 10 in. .... \$2.50  
Selfregistering, indicates maximum and minimum degrees of temperature. Japanned case, \$5.50; copper case..... 6.00  
Hotbed or Mushroom, iron point..... 2.50  
Churn or Dairy glass, also suitable as a soil thermometer..... 1.00

## GOODYEAR MEANS GOOD WEAR

### Rubber Hose

¾-in. Spray Hose.....	16 ft.	¾-in. Garden Hose Wing-foot	16 ft.
¾-in. Spray Hose.....	20 ft.	¾-in. Goodyear Glide.....	14 ft.

### Emerald Cord Lawn Hose

25 feet, with couplings..... \$5.00  
50 feet, with couplings..... 9.50

## SHEPS PLANT SPRAY

This non-poisonous spray gives positive protection against both sucking and chewing insect pests, including Aphids, Thrips, Green Flies, Mealy Bugs, Worms, Caterpillars and others. Harmless to humans, birds, animals and pets. Will not injure the most delicate plants. Benefits soil and foliage. Absolutely the easiest spray to mix—no soapsuds solution, perfect emulsion—20 seconds from bottle to plant.

Following sizes and prices:

2 oz. bottle, postpaid.....	\$0.35
8 oz. bottle, postpaid.....	.75
16 oz. bottle, postpaid.....	.75
Quart can, postpaid.....	2.00
Gallon can, postpaid.....	6.35
5 gallon can, postpaid.....	30.00

Bulk Prices on Inquiry.

# Sprayers and Tools

## Hudson Perfection Sprayer

### HIGH PRESSURE

Highest Quality; Most Satisfactory

**Tank.** 7½ inches diameter, 20 inches high; capacity approximately 4 gallons. All seams are riveted and soldered. Tested under actual working conditions before it leaves factory. Made of first quality copper-bearing galvanized or brass sheets. Brass is recommended for use with corrosive solutions because it better resists their action.

**Pump.** Seamless brass tubing, 1¾ inches diameter, 15½ inches long. Ample capacity to develop the pressure for which the Perfection is noted. The design of our pump top is individual, combining simplicity, convenience, strength, and service. May be removed from tank with ease.

### Prices

No. 110G—Perfection, Galvanized Tank.....	\$ 6.75
No. 110B—Perfection, Brass Tank.....	11.50
No. 171B—Extension Rod, 1 foot brass.....	.50
No. 172B—Extension Rod, 2 foot brass.....	.65



## Hudson New Junior Sprayer

The Hudson New Junior Sprayer is made for the man who needs a high pressure compressed air sprayer of small capacity. It is particularly adapted for the back-yard garden or small truck farm, for use around the chicken house, in the dairy barn, hog pen, for disinfectants in the home or in hotels, restaurants, theaters and other public buildings. It is a well made, substantial sprayer, thoroughly tested under actual working conditions at the factory.

**Tank.** 6½ inches diameter, 17 inches long; capacity about 2½ gallons. Made of first quality brass, or copper bearing galvanized sheets. Brass is recommended for use with corrosive solutions because it better resists their action.

### Prices

No. 140G—New Junior, Galvanized Tank.....	\$5.00
No. 140B—New Junior, Brass Tank.....	8.25
No. 171B—Extension Rod, 1 foot brass.....	.50
No. 172B—Extension Rod, 2 foot brass.....	.65
No. 120G—Thrifty. Each.....	5.50
No. 192G—Leader. Each.....	5.50

## Hudson New Favorite Sprayer

### High Pressure

**Tank.** 7½ inches diameter, 20 inches high; capacity approximately 4 gallons. All seams riveted and soldered. Made of galvanized or brass sheets. Brass is recommended where the sprayer is used with corrosive solutions because it better resists their action. Copper-bearing sheets are used exclusively in the galvanized tank because of their rust-resisting qualities.

**Pump.** 1¾ inches in diameter, 15½ inches long; seamless brass tubing. Pump dimensions permit the operator to develop high pressure with a minimum of effort. Seals into tank by means of malleable cap which screws onto brass tank collar. Easily removed for filling, cleaning, etc.

**Standard Package.** One in a heavy fibre carton. Shipping weights approximately 11 pounds.

### Prices

No. 130G—New Favorite, Galvanized Tank.....	\$ 6.00
No. 130B—New Favorite, Brass Tank.....	10.00
No. 171 —Extension Rod, 1 foot brass.....	.50
No. 172B—Extension Rod, 2 foot brass.....	.65

## Jim-Dandy Sprayer



Adapted for spraying garden and farm vegetables, shrubbery, grape vines, currant bushes, fruit trees, etc. Will spray rapidly; disinfectants in schools, public buildings, poultry houses and stables.

**Reservoir**—Heavy galvanized iron. **Capacity**—Two quarts—**Brass**—Pump barrel, ball check valves and nozzle. **Nozzle**—Golden Spray, for large fine mist spray or long distance coarse spray.

Packed ½ dozen to case. Shipping weight, 21 pounds.

Each, Complete, \$3.50.

## Hudson Continuous Sprayer

Price, each.....90c



## Hudson Continuous Sprayer

Price, each.....60c

## Hudson Crescent Sprayer

Price, each.....75c

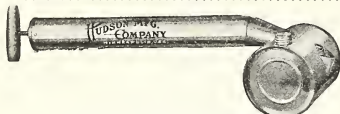


**Wheelbarrow Pump Sprayer**

12½ gallon capacity, 5 ft. hose, 42 lbs. shipping weight.  
Complete \$14.50.

**Hudson Modoc Spray Pump**

Each ..... \$5.00

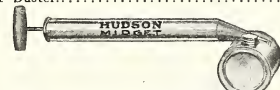
**Hudson Misty Sprayer**

Price, each.....	.50c
No. 101—Glass Tank, 1 quart capacity.....	\$0.90
No. 126—Galvanized Tank, 1 quart capacity.....	.75
No. 115—Continuous Tank, 1 quart capacity.....	1.00
No. 122—Baby Midget, 1 pint capacity.....	.35
No. 131—Powder Gun, 1 quart capacity.....	1.00
No. 111—Compressed Air Sprayer, capacity 3 gallons, automatic and positive in action, each.....	6.50
No. 112—Marvel, each.....	3.50

**Hudson Cadet Duster**

The Hudson Cadet Duster is adapted for use with all insect powders. Because of its size and efficiency it is a favorite with the housewife in applying roach, ant, and various bug powders. It is frequently used around restaurants, soda fountains, offices, stores, etc.

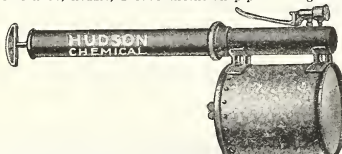
No. 663—Cadet Duster.....50c



**No. 28. Lightning Whitewash Sprayer and Force Pump.** Will fit any pail or bucket. Double action; brass cap detachable for removing the plunger; barrels made of heavy steel; very durable. Three feet of best grade of hose with each pump. Each \$5.00.

**Peerless Dust Gun.** A perfectly balanced gun that will not tire the operator, the load being divided, front and rear. The fan revolves on ball bearings in grease-packed housing. Has agitator and brush to break up lumps and insure a constant and regular feed. Dusts two rows at once, to either side of the leaf, and can be regulated to apply from almost nothing to 20 lbs. to the acre. Handles any dry powdered insecticide. Capacity of hopper, 7 lbs. calcium arsenate. By mail postpaid, \$19.50. Not prepaid, \$15.00.

**Wheelbarrow Spray Pump.** An ideal outfit for large gardens, poultry plants, for applying spray solutions, disinfectants and whitewash. Goes anywhere through narrow openings like a wheelbarrow. The pump is made almost entirely of brass; there are no leather cups to wear out, and the plunger head is packed with graphite asbestos, which may be expanded for wear; has 20-inch wheel. The galvanized tank holds 12 gallons. Fully equipped with 6 feet of hose, nozzle, 2 foot extension pipe and agitator. \$15.50.

**Perfecto Flower Box.**

Made of coppered steel which neither rusts nor deteriorates. Water is poured in either end and quickly seeks the level of the connecting troughs and soaks into the earth at the root of the plants. Finished in dark green.

Length	Width	Depth	Not Packed	By Mail Postpaid
20 inches	7 inches	6 inches	\$1.00	\$1.25
26 inches	7 inches	6 inches	1.50	1.75
32 inches	7 inches	6 inches	2.00	2.25
38 inches	7 inches	6 inches	2.50	2.80
44 inches	7 inches	6 inches	3.00	3.35

**Berry and Fruit Baskets.**

For shipping and marketing berries and other small fruits.  
1 Pint Size. (Oblong.) By mail postpaid, \$1.50 per 100. Not postpaid, \$1.10 per 100; \$8.50 per crate of 1,000.  
1 Quart Size. (Square.) Wood rim. By mail postpaid, \$1.50 per 100. Not postpaid, \$1.10 per 100; \$8.50 per crate of 1,000.  
1 Quart Size. (Square.) Metal rim. By mail postpaid, \$1.50 per 100. Not postpaid, \$1.10 per 100; \$16.50 per crate of 2,000. Special prices on lots of 5,000 or more.

**No. 111. Compressed Air Sprayer,** capacity 3 gallons, automatic and positive in action. Each \$6.50.

**Economy Sprayer.**

Capacity 3½ gals. Made of first quality galvanized sheet, double folded top and bottom seams, riveted side seams, heavily soldered throughout; the pump is seamless brass tubing, will spray liquid insecticides, whitewash, cold water paint, disinfectants, etc. Equipped with 2 feet of hose, extension pipe, and brass automatic nozzle that operates perfectly under all pressures. The Economy is designed to give the greatest possible value at an attractive price. By mail postpaid, \$5.35. Not postpaid, \$5.00.

**Autocrat Duster.**

Of larger capacity than any of the above dusters. The powder is kept agitated to insure a uniform flow. The extension pipe has two angle nozzles of different sizes for dusting under low-growing plants. By mail postpaid, \$4.25. Not prepaid, \$4.00.

**California Beauty Duster.**

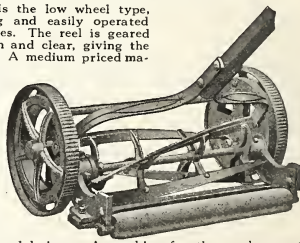
An easily operated duster with a wide range of usefulness, with ample power to apply any of the standard dry insecticides. It is the perfection of simplicity, the working parts being reduced to the absolute minimum, and are all under cover and protected from damage. Friction and wear are practically eliminated. The bellows action is so rapid as to give an almost continuous flow of dust, which is completely under control at all times, and the quantity of insecticide can be regulated. The insecticide is applied to both sides of the leaf. By mail postpaid, \$13.90.

**Germaco Hotkaps.**

Protect plants from frost, wind and rain, matures the crops earlier, keeps off insects and keeps the soil moist. They are individual miniature greenhouses 11 inches across at base. By mail postpaid, roll of 250, including cardboard set, \$4.30; roll of 1,000, \$12.10. Not prepaid, roll of 250 kaps, \$4.00; \$11.50 per 1,000; 5,000 kaps, \$11.00 per 1,000.

**Thomas Lawn Mowers****Sterling.**

This model is the low wheel type, light running and easily operated on level lawns or on terraces. The reel is geared so as to cut absolutely even and clear, giving the lawn a velvety appearance. A medium priced machine particularly adapted to city trade where lots are comparatively small and mown frequently. Made in 18 inch widths, with four reel knives. Finished in a rich bronze color with aluminum finished wheels. Price each \$9.50.

**Majestic.**

This is a high-grade machine made to meet the demands of the highest class of trade. It is made in 18-inch width with five reel knives. A machine for those who want the best, yet priced within reach of the man of moderate means. Has aluminum finished red shrub bar, and balance in rich bronze finish. Price, each \$12.50.

**OUR SPRAYING SERVICE.** We keep a large supply of various bulletins concerning spraying all kinds of crops. We will gladly send you these bulletins which will recommend to you how to spray your crops for various diseases and pests.

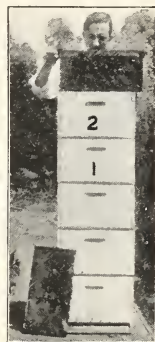
# Beekeepers' Supplies

## LEWIS BEEWARE

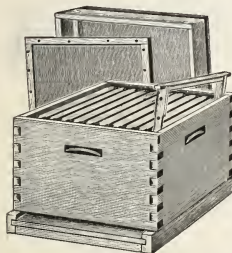
BEWARE  
BEWARE  
LEWIS  
THEY  
THEY

BEWARE  
BEWARE  
LEWIS  
THEY  
THEY

Bee yards like this are bringing the owners big profits. In order to handle bees with satisfaction and to make a profit out of them it is necessary to have beekeeping equipment accurate in every detail. All hives, supers and inside fixtures must be interchangeable throughout the bee yards. The quality of goods bearing the BEEWARE trade mark answers these requirements perfectly. If you do not find any of this equipment up to your idea of perfection, you will be at liberty to return it, and all money and transportation charges will be refunded.



### 10-Frame Hive



All wooden equipment is shipped knocked down, but due to the dovetailed feature, it is very simple to assemble. Nails and directions are included in each carton. Nothing but the clearest of white pine is used in the manufacture of this equipment with the exception of the bottom boards for hives which are made of cypress, which is the best wood known to withstand dampness.

#### With Metal Roof Cover

1 Hive, wt. 32 lbs. .... \$ 3.55  
5 Hives, wt. 151 lbs. .... 16.10

#### With Wood Cover

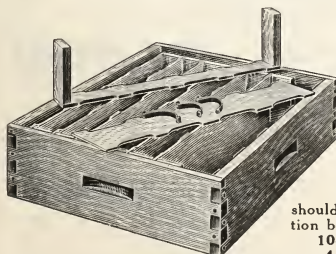
1 Hive, wt. 26 lbs. .... \$ 2.95  
5 Hives, wt. 151 lbs. .... 13.45

8-Frame Sizes Also Furnished.

### Bee Journal Free

Upon receipt of your first order we ask publishers to send you a year's subscription free. It contains no advertisements and is devoted entirely to the purpose of making better beekeepers of users of LEWIS BEEWARE. Only successful methods which have been tried and proven are contained in its pages. The information is gained from America's foremost beekeepers. Good beekeeping is highly profitable. Learn the best methods.

### 10-Frame Comb Honey Supers

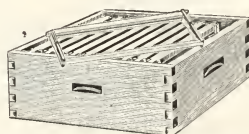


This style of comb honey super is considered standard by most comb honey producers. It holds 28 section boxes measuring  $4\frac{1}{4} \times 1\frac{1}{8}$ . Complete with inside fixtures except comb foundation. Thin surplus foundation  $3\frac{1}{4} \times 16\frac{1}{2}$  should be used in this section box.

#### 10-Frame Super for $4\frac{1}{4} \times 1\frac{1}{8}$ Sections

1 Super, wt. 10 lbs. Price, each. .... \$1.25  
5 Supers, wt. 41 lbs. Price, each. .... 4.70

### 10-Frame Shallow Super



Many beekeepers in the Southeast are finding it profitable to produce chunk honey in the shallow super shown here. When the frames are filled with sealed comb, the honey comb is cut out with a knife and bottled or placed in tin containers with liquid honey. Small beekeepers who

do not own a honey extractor frequently market the comb without cutting it from the frame. We recommend this type of super for beginners as it is easier to produce honey in the shallow frame than in the section boxes. Use thin surplus foundation measuring  $5 \times 16\frac{1}{2}$  inches, which is attached to the groove in the top bar of the frame by means of melted wax, the lower end of the sheet being inserted through the slot in the bottom bar. No wiring of frames is necessary. For those wishing to use the thick top bar frame with wedge, a slight extra charge is made as shown below.

#### 10-Frame Shallow Extracting Super

1 Super, wt. 10 lbs. .... \$1.25  
5 Supers, wt. 40 lbs. .... 4.90

All wooden equipment is shipped knocked down, but due to the dovetailed feature, it is very simple to assemble. Nails and directions are included in each carton. Nothing but the clearest of white pine is used in the manufacture of this equipment with the exception of the bottom boards for hives which are made of cypress, which is the best wood known to withstand dampness from the ground.

### 10-Frame Hive Body

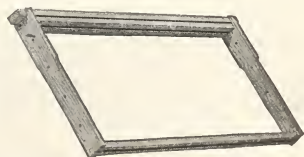
To produce honey successfully it is necessary to provide an extra story for the queen to lay eggs in. If this extra story is not provided, swarming nearly always results and the colony of bees may be weakened to such an extent by the loss of this swarming that it will produce no surplus honey.

Only big crops are secured from strong colonies.

1 Hive body, weight 16 lbs. .... \$1.75  
5 Hive bodies, weight 68 lbs. .... 7.05

### Frames

This shows a Lewis frame equipped with the patented slotted bottom bar. Note the heavy wedge in the top bar. Dadant's wired foundation is inserted through the slotted bottom bar and the top bar wedge nailed from the edge. No horizontal wiring is necessary. All of our hives are equipped with this style of frame.



8 Hoffman frames, wt. 5 lbs. .... \$0.65  
10 Hoffman frames, wt. 6 lbs. .... .75  
100 Hoffman frames, wt. 46 lbs. .... 6.00  
10 5% Shallow frames, wt. 4 lbs. .... .60  
100 5% Shallow frames, wt. 27 lbs. .... 4.30



# Beekeepers' Supplies—Continued



## Bee Smokers

Doctor, 3½x7, wt. 2 lbs.	\$1.00
Smoke Engine, 4x7, wt. 2 lbs.	1.25

## Honey Comb—Section Boxes

No. 1 Grade—	
100—4¼x1½ beeway, weight 6 lbs.	\$1.35
500—4¼x1½ beeway, weight 38 lbs.	6.55
No. 2 Grade—	
100—4¼x1½ beeway, weight 6 lbs.	\$1.25
500—4¼x1½ beeway, weight 38 lbs.	6.00



Lewis Section

We can also furnish section boxes in the 4¼x1½ and 4x5 plain size at a slightly lower cost. Write for prices.

## Lewis Sections

Famous for their snowy whiteness, smooth finish, and accurate folding. Made in two brands, Renown and Favorites. Workmanship equal, but Favorites slightly darker in color.

## Comb Honey Super Inside Fixtures

	Each	100
Beeway section holder.	\$0.05	\$3.90
Separators, ½ inch.	.03	2.00
Fence separators for 4x5 sections.	.07	6.20
Section holder for 4x5 sections.	.07	5.80
Tin section holder rests.	.02	1.00
Super springs	.01	.75
Tin rabbits for frame rests.	.02	1.25

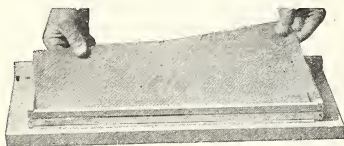
All of the above for 10-frame equipment.

BEE ESCAPE, wt. each 2 ozs., each.	\$0.16
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BEWARE  
OF THE  
BEEWIS!  
DON'T BE WISE!



## Dadant's Comb Foundation



Note the simplicity with which Dadant's wired foundation is inserted in a slotted bottom bar frame. The crimped wires embedded in the foundation prevent the comb cells from stretching in warm weather. It also does away with the tedious job of wiring frames. Every frame in the hive should contain a full sheet of foundation. Without the use of a full sheet of foundation in frames of modern hive is little better than a hive box.

## Bee Gloves

Per pair.	\$0.90
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## Dadant's Comb Foundation

### Wired Medium Brood

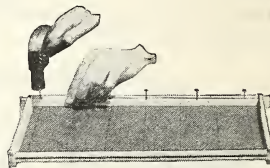
8 sheets	\$1.15
10 sheets	1.45
5 pounds	4.30

### Unwired Medium Brood

8 sheets	\$0.87
10 sheets	1.09
5 pounds	4.15

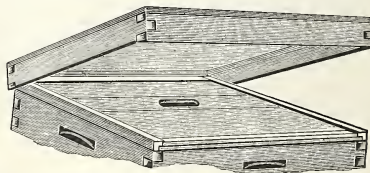
### Thin Surplus Foundation

1 pound	\$0.96
5 pounds	4.55



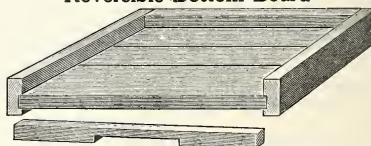
All frames are equipped with slotted bottom bars. Dadant's ready wired foundation slides into the slot. No more tedious wiring of frames to get good combs.

## Metal Roof Cover With Inner Cover



1 10-Frame Hive Body with Frames, wt. 16 lbs.	\$1.75
5 10-Frame Hive Bodies with Frames, wt. 68 lbs.	7.05
1 10-Frame Metal Cover with Inner Cover, wt. 11 lbs.	1.40
5 10-Frame Metal Covers with Inner Covers, wt. 47 lbs.	5.75

## Reversible Bottom Board



1 10-Frame Reversible Bottom Boards, wt. 9 lbs.	\$0.90
5 10-Frame Reversible Bottom Boards, wt. 36 lbs.	3.30

## Steel Hive Tool

8-inch, weight 5 ozs, each.	\$0.50
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## Excelsior Wire Bee Veils

Each	\$1.00
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Tank	one	compartment,	3'.	Price
30.00.				



### Milk Bottle Caps

Plain, Lettered, or Special Print Caps

Tubes of	500, each....	\$ 0.25
Boxes of	5,000, each....	2.40
Boxes of	50,000, each....	21.00

### Sealright Pouring-Pull Milk Bottle Caps

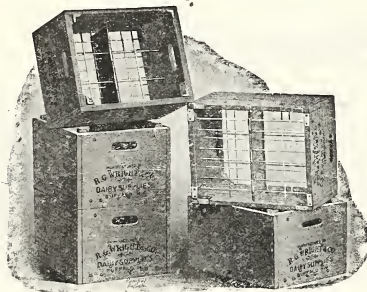
1. It can be removed cleanly just by pulling the tab.
2. The tab can be lifted without removing the cap and the milk poured without spilling or exposure.
3. The tab can be lifted and a straw inserted for drinking milk in schools, restaurants and at home. Per 1,000, 60c.

Write us for prices on Caps in quantities with Name of Dairy, etc., printed on same. Every dairy should have these.

### Dairy Brushes

Milk Bottle Brushes (Hand).	Each, 50c, 60c, 75c.
Milk Bottle Brushes (Machine).	Each, \$1.20.
Scrub Brushes. Good for scrubbing milk cans.	Each, 50c.
Stable Brooms. Extra quality fibre.	Each, 90c, \$1.40.
Stable Brooms. Steel.	Each, \$2.10.

### Sanitary Cases



Clean, light, durable. Made of selected lumber. Securely nailed and reinforced with a strip of steel in each corner. Partition wires galvanized and hand riveted. Heavy galvanized top stacking irons riveted and nailed, reinforcing and protecting corners from wear. Standard size inside dimensions, 16 $\frac{1}{2}$ x13 $\frac{1}{4}$ .

Quarts, each	.....	\$2.25
Pints, each	.....	2.35
Half Pints, each	.....	2.50

### Wyandotte Cleaner and Cleanser



This popular cleansing alkali will keep your utensils, cans, churns, vats, etc., sterile, pure and clean. The greasy film that milk leaves goes completely when a Wyandotte solution is used.

280-lb. Bbls., per 100 lbs.	\$5.86
80-lb. Kegs, each	5.69
5-lb. Sacks, each	.50

### Anti-Cow Kickers

Fits on cow's two hind legs and will prevent kicking while milking. Each, \$1.25.

If you need Dairy Barn Equipment or anything in Dairy Supplies not listed in these sheets, write us for prices and descriptive matter. We have everything for the Dairyman.

### Milking Pails



No. 2



No. 1



No. 3  
STRAINER

No. 1 HEVY WATE (Open Mouth) PAILS.	Each.....	\$1.00
No. 2 FISHMOUTH PAILS (Strainer).	Each.....	2.00
STERILAC PAILS.	Each.....	2.20
No. 3 MILK STRAINERS. Made to fit in top of milk cans.	Each.....	2.25

### Milk Pails

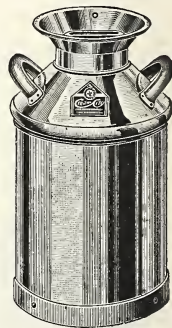
(With Handle and Cover—Heavy and Very Durable)

4-Quart Milk Pails.	Each.....	\$1.10
6-Quart Milk Pails.	Each.....	1.25
8-Quart Milk Pails.	Each.....	1.50
10-Quart Milk Pails.	Each.....	1.75
12-Quart Milk Pails.	Each.....	2.10
16-Quart Milk Pails.	Each.....	2.60
20-Quart Milk Pails.	Each.....	3.00

### Milk Cans

HEAVILY BUILT

5-Gallon size.	Each.....	\$3.25
10-Gallon size.	Each.....	4.25
10-Gallon size (with ice compartment).	Each.....	9.75



### Butter Paper

PATTERSON BUTTER PARCHMENT—Vegetable compound.	Per lb.....	\$0.40
Per 5 lbs.	.....	1.75

### Butter Molds

Both round and square types—with and without designs.	Price, each.....	.45c
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### Butter Cartons

Pasteboard. Very attractive package. 1-pound size.	Per 100.....	\$1.25
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### B-K The Ideal Dairy Disinfectant

B-K—The ideal Dairy Disinfectant and Deodorizer. This is a necessity with all dairymen everywhere. It will absolutely kill bacteria—The words B-K mean "Kill-Bacteria." Use it—you will see a great difference in your milk. Recommended and demanded in a great many cases by all health officials. 8 oz. 45c; 16-oz. 65c; gallon size \$2.00; 5-gallon size \$8.50.



# Poultry Supplies and Feeds

**BLACK HAWK CORN SHELLER**—Where whole corn is fed to poultry this will be a very good grist for the shelling of it. Price, \$3.00. By Mail add 35c postage.

**BLACK HAWK GRIST MILL**—It can be easily fastened to a table or board, and corn and other grains can be cracked or ground into the finest meal. Price, \$3.50. By Mail add 35c for postage.

**OAT SPROUTER No. 110**—Provides the very necessary green feed at all seasons. Healthy chickens and more eggs. The frame is of steel, well braced and neatly painted. Has six heavy galvanized iron pans. Five of the pans have perforated bottoms to secure the proper drainage, and the bottom pan is solid to hold the drippings. Shipping weight, 30 pounds. Each \$6.75.

**HUMPTY-DUMPTY EGG CARRIERS**—Well built wooden egg carrier. Holds twelve dozen eggs. The best, cheapest and most convenient in existence. Eggs may be shipped by express without danger of breaking them. An ideal article to market eggs. Carriers come complete with paper fillers (to separate each egg.) Price, \$1.00. Dangle fillers, 30c per dozen.

**ANDERSON "HATCHANEGG" BOX**—This box is so constructed with filler inserted that it will resist crushing and blows received when in transit much better than a one-piece box or a box without a filler, such as the average box now on the market.

The Anderson "HatchanEgg" boxes are made in the following sizes:

	Price, Each	Dozen
No. 3—15-egg	.....\$0.30	\$2.75
No. 4—30-egg	......40	3.75
No. 5—50-egg	......50	5.00

**THE PETTEY POULTRY PUNCH**—A simple and effective method of marking chicks which permits identification. The hole is punched in the thin web between the toes and makes a clean, quick cut and does not hurt the chick. Each, postpaid 30c.



**Regal Egg Carriers**  
This "Safety First" box for either Parcel Post or Express use. This box is strong enough to bear your own weight when filled with eggs and will withstand the hardest jolt without breaking. The breeder who knows will use this box for shipping fancy eggs.

15 Eggs, each.....	\$0.20	50 Eggs, each.....	\$0.70
30 Eggs, each.....	.40	10 Eggs, each.....	1.25

**PASTERBOARD EGG BOXES**—Used for holding 1 dozen eggs, neatly packed for market. Long style, 6x2 eggs, 25c per doz.; \$2.00 per 100. (Mailing weight of each style, 2 lbs. to 1.5c.)

**FIRELEY ELECTRIC EGG TESTER**—A very handy and convenient egg tester for instantly and accurately testing eggs for fertility. Each \$4.50. Mailing weight 3 lbs.

**STANDARD EGG TESTER**—Price, 45c. Mailing weight, 4 ozs.

**LICE KILLING NEST EGGS**—Shaped like a natural hen's egg, but impregnated with lice killing and disinfecting properties, combining the qualities of a vermin killer and nest egg in one. Used to keep the nest sweet and clean and the fowls free from lice and disease. 5c each (mailing weight 4 ozs.); dozen 50c (mailing weight 2 lbs.).

**WHITE GLASS NEST EGGS**—5c each; 30c dozen (mailing weight 2 lbs.).



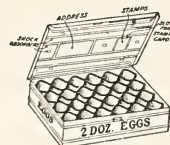
**Round Feeder No. 12.** This is a splendid feeder for about 25 baby chicks. Used for mash or grains either. Hens can't scratch it over or get to the feed. Perfectly sanitary and desirable in all respects. 8 1/2 inches in diameter; 12 holes. Postpaid, each 35c; 3 for \$1.00.

**Single Trough.** Heavy galvanized iron trough for baby chicks to be hung on a wall or just placed on the floor; no rough or sharp edges. Prices, postpaid:

No. 55—12 inches long. Each.....	.40
No. 56—16 inches long. Each.....	.45
No. 57—24 inches long. Each.....	.60

**Double Feed Trough.** Similar to single except that it has two sides and is twice as deep. Prices postpaid:

No. 58—12 inches long. Each.....	\$0.50
No. 59—16 inches long. Each.....	.65
No. 60—24 inches long. Each.....	.75



**Metal Egg Crates**  
Sell Eggs by Mail to Your City Friends. Shipped in Aluminized Metal Egg Crates. Indestructible; made for interchangeable shipments; lasts for years; pays for itself in a few shipments. Buy yours now and realize more money for your eggs. Your friends want them.

Thousands now in daily use. Add postage to your destination.

**Metal Egg Crate Prices**

1 1/2 doz. size—all eggs.....	\$1.25	4 doz. size—all eggs.....	\$2.00
2 doz. size—all eggs.....	1.50	6 doz. size—all eggs.....	2.50
3 doz. size—all eggs.....	1.75		

**Prices Combination Crates With Metal Containers**

No. 1—2 lbs. and 1 doz. eggs.....	\$1.50
No. 2—4 lbs. and 2 doz. eggs.....	2.00
No. 3—4 lbs. and 3 doz. eggs.....	2.25
No. 4—6 lbs. (three 2-lb. Containers).....	2.25
No. 5—12 lbs. (three 4-lb. Containers).....	2.50
No. 6—16 lbs. (two 8-lb. Containers).....	2.50
No. 7—24 lbs. (two 12-lb. Containers).....	3.50

**NOICE**—After much experimenting and testing we have found it is more satisfactory to our customers to hatch their own eggs with Buckeye Incubators than it is for them to buy Baby Chicks from a distance and attempt to raise them.

**BABY CHICKS** can furnish any quantity of any variety or strain of Baby Chicks that you may want. Write for prices.

## "Tycos" Incubator Hygrometer, No. 5796

Price, \$1.50. Extra Wicks, 10c each, postpaid.

### THE PUTNAM BROODER HEATER

Will hover from 25 to 50 chicks. Lamp will burn 7 days on 1 filling. Simple to operate and absolutely safe. A complete brooder can be made at a cost of not over \$5.

Price for Brooder, postpaid, \$4.75.



## Chick Boxes

**LIVE CHICK SHIPPING BOX**—Made of corrugated paper, extensively used, will carry chicks any distance with perfect safety. Shipped knocked down and takes up small amount of space.

25-Chicks—Wgt. of box, 1 lb. Each.....	17c
50-Chicks—Wgt. of box, 2 lbs. Each.....	20c
100-Chicks—Wgt. of box, 3 lbs. Each.....	25c

## Improved Wall Fountain

Made of heavy galvanized iron, in three sizes. The covered outlet keeps out dust and dirt, and the outlet is further protected by a removable plate which prevents any floating rubbish from being drawn into the reservoir.

No. 97—Capacity 2 qts. Each.....	\$0.90
No. 98—Capacity 1 gal. Each.....	1.00
No. 99—Capacity 2 gals. Each.....	1.40



**Magazine Chick Feeder and Waterer No. 18.** A new round chick feeder with a magazine or container to hold a good quantity of feed. The upper magazine is fitted with the feeder with a spiral thread so that it can be adjusted up or down to feed the different kinds of grain. It can also be used for a drinking fount, as the magazine is water and air tight. Ideal for brooder houses and brood coops for feeding baby chicks. Can be given at one time sufficient feed for a day, and there is no loss. Price, each, 65c; postpaid, 70c.



It paints and disinfects at one operation in the same time and with the same labor required to paint or disinfect.

**CARBOLA** is recommended for use instead of whitewash in every place where whitewash ordinarily is used, and it is recommended for use instead of whitewash and disinfectants in stables, kennels, poultry houses, rabbit hutches, barns, creameries, hospitals, and dairies.

It is recommended for use as a disinfectant wherever one is needed and where the added light that comes from a whitened wall—which walls increase the light from 25 per cent to 50 per cent—is an advantage. Trial pkg. 30c; 10 lbs. \$1.25; 50 lbs. \$5.00.



# Buckeye Colony Brooders and Incubators

The reputation of Buckeye poultry equipment reaches around the world. Poultry raisers everywhere have confidence in the Buckeye name. They know that Buckeye Incubators bring off the biggest hatches of strong, sturdy chicks. They know that Buckeye Brooders are safe and reliable, with the ability to raise every chick that has the slightest chance to live. This great reputation of Buckeye equipment has grown, first of all, from the superior results given by Buckeye Incubators and Brooders in actual use. And the ownership of Buckeye apparatus has been so widespread that every poultry raiser is acquainted with Buckeye efficiency either through direct personal experience or through the favorable reports of others. On top of that, the reputation of Buckeye equipment has been carried far and wide by the greatest advertising in the industry. This advertising has kept, and is continuing to keep, Buckeye products in the minds of farmers and other poultry raisers constantly. Every Buckeye dealer gets the finest kind of help in selling Buckeye Incubators and Brooders. Inquiries from Buckeye advertising are referred to dealers so that they can make the sales and reap the profits. In addition to that, Buckeye dealers are provided with newspaper advertisements and electrotypes, window displays, catalogs, booklets, and other selling helps. It pays—and pays big—to carry the Buckeye line.

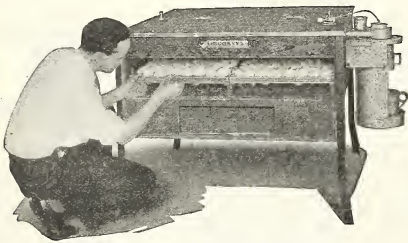
## Buckeye Coal-Burning Colony Brooders

The Buckeye Coal Burner is the pioneer colony brooder. It has been the leader for sixteen years. It has saved millions of chicks each year for poultry raisers. It has the capacity to supply abundant heat in the worst weather. The stove is larger. It holds more coal. It burns longer with one fueling. It burns hard or soft coal.

It has the famous Non-Clogging Rocker Grate. This grate is bigger—makes possible a larger fire body. It doesn't let the fire get choked or smothered. And the burning is regulated by a reliable Thermostat which operates the Double Check Draft. This insures steady brooding temperatures. The fire won't overheat or go out. And the wonderful Buckeye Canopy revolves, making the floor under the Brooder easy to get at. The Canopy radiates heat uniformly over the brooding area. Chicks are always comfortable. They keep strong and healthy. No other coal-burning brooder is such a splendid value.

### MADE IN FOUR SIZES

	No. 117	No. 118	No. 119	No. 120
Chick Capacity .....	300	500	1000	1200
Diameter of Canopy .....	42"	52"	56"	60"
Height of Stove .....	20"	21½"	24½"	28"
Diameter of Base .....	11"	12½"	13½"	15½"
Diameter of Grate .....	8½"	9"	10½"	10½"
Coal Capacity .....	25 lbs.	40 lbs.	60 lbs.	75 lbs.
Smoke Pipe .....	4"	5"	5"	5"
Shipping Weight .....	77 lbs.	102 lbs.	133 lbs.	145 lbs.
Price .....	\$15.00	\$17.50	\$22.50	\$26.50

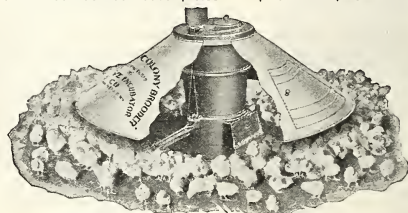


MODEL No. 69 BUCKEYE INCUBATOR

Capacity, 576 chicken eggs; 4 egg trays; double doors in front and back; dimensions of cabinet, 32¼" x 52¼" x 12½"; shipping weight, 290 lbs.

Buckeye Incubators is the preferred line of incubators for dealers to handle. Easier sales. Liberal profits. Satisfied customers. Models to meet all requirements. Each Buckeye cabinet built of redwood that doesn't warp, split, or retain odors. Beautiful finish. Heavy insulation. Patented all-metal thermostat assures correct incubating temperatures. Heating tank built of heavy copper. Circulates hot water perfectly. Efficient lamp with large oil capacity. Also available with gas burner. Clean flame without odors. Underwriters' Label on all models except No. 65—a warranty against fire hazard. Automatic egg turners on four larger models prevent chilling or breaking eggs. Egg tester and thermometer FREE with each incubator. Buckeyes produce largest hatches of big, fluffy, lively chicks.

	No. 65	No. 66	No. 67	No. 68	No. 69
Capacity .....	75-egg	143-egg	286-egg	416-egg	576-egg
Shipping Weight .....	60 lbs.	122 lbs.	186 lbs.	222 lbs.	290 lbs.
Price .....	\$18.50	\$39.50	\$57.75	\$76.50	\$97.50



A Buckeye Mother—More Used Than Any Other

## Buckeye "Rite-Heat" Oil-Burning Brooder!

This is a drum-type brooder that has the brooding capacity of a coal burner. The improved stove has two baffle plates, greatly increasing heating efficiency. The burner has an exclusive flame spreader that throws the flame down and out to the sides of the stove. And the perfected "Rite-Heat" has a special double pre-heating chamber, thoroughly heating the air before it reaches the burner—an improvement that enables the flame to burn continuously even at a very low rate. The flame won't flare up. It won't go out. The new smoke pipe cap prevents back drafts from reaching the flame.

The new "Rite-Heat" burner bowl has an overflow pipe to drain off any excess oil that may be supplied to the burner.

The improved thermostatically controlled Heat Regulator insures ideal temperature under the canopy. It has a sight feed showing at a glance how much oil is being delivered to the burner. The HINGED Canopy is a remarkable labor saver and a marvelous heat deflector. The front half can be raised, thus giving ready access to any point around the stove.

"Rite-Heat" saves chicks where other oil-burning brooders fail. Safe; dependable; durable; economical.

	No. 103	No. 104
Chick Capacity .....	500	1200
Diameter of Canopy .....	52"	62"
Shipping Weight .....	111 lbs.	119 lbs.
Price .....	\$29.50	\$31.50

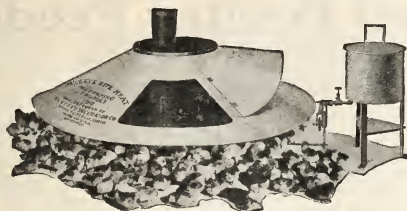
6-Gallon Metal Oil Container.



## GUARANTEE

Every Buckeye Incubator is guaranteed to give satisfactory service. It is guaranteed, when operated in accordance with our instructions, to hatch a high percentage of hatchable eggs, and to produce as strong and vigorous chicks as can possibly be produced from the eggs set in the incubator. It is further guaranteed that all mechanical parts are of perfect construction, and any Buckeye Incubator or part thereof that does not fulfill our guarantee in every particular will be replaced at any time within forty days from date of purchase.

Signed, THE BUCKEYE INCUBATOR COMPANY.



## Buckeye Blue-Flame Colony Brooder

An ideal oil-burning brooder for heated or warmly constructed brooding houses. Has a powerful burner; a self-feeding oil container, holding one gallon of oil. Galvanized steel canopy supported by cast-iron legs, and equipped with "Diafram" Heat Conveyor which distributes heat uniformly and provides perfect ventilation. No complicated levers, valves, or thermostats. No "oil-leveling" mechanism to contend with. Simple, easy and economical to operate.

No. 27-B 250 Chicks Diam. 34" Shipping Weight 38 lbs. \$14.50	No. 80-B 350 Chicks Diam. 42" Shipping Weight 42 lbs. \$15.50	No. 81-B 500 Chicks Diam. 52" Shipping Weight 48 lbs. \$16.50
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Where a greater amount of heat is desired, we can furnish the 500-chick brooder with a giant chimney under Model No. 29-B.



## Buckeye Gas-Burning Colony Brooder

This is the ideal brooder to use where natural gas is cheap. It has a great new burner that effects a complete mixture of air and gas. This means a hot, clean flame without soot or odors. A special deflector, backed with a mat of 1-inch-thick air-cell asbestos, extracts all heat from the flame and deflects it uniformly over the brooding area. Steady temperatures are maintained by accurate, positive thermostatic control. A by-pass in the control valve supplies enough gas to keep the flame burning at the minimum rate. It won't go out or flare back. The canopy is made of heavy galvanized metal. It's shaped to radiate heat uniformly over the brooding area. The brooder stands on a solid pedestal which prevents any possibility of tipping. No gas-burning brooder ever built can compare with the Buckeye in safety, economy, and chick-saving ability.

Chick Capacity	No. 147 300	No. 156 600
Diameter of Canopy	47"	56"
Shipping Weight	45 lbs.	50 lbs.
Price	\$10.50	\$12.00



## GUARANTEE!

Buckeye Brooders are guaranteed to be exactly as represented and to be absolutely satisfactory when operated in accordance with our instructions. But we do more than simply say we guarantee these brooders. We offer to permit you to try any size Buckeye Brooder for 30 days, and if you are not entirely satisfied, return the brooder and your money will be refunded without argument.

Signed, THE BUCKEYE INCUBATOR COMPANY

## Tycos Incubation-Zone Thermometer

No. 125—Genuine "Tycos" Thermometer. Seasoned glass tubes, mercury filled and carefully tested. White figures and graduations on the black finished scale make them easy to read. Scale range 90 to 110 degrees Fahrenheit. Complete with a metal stand as shown. Packed 1 in a box. Shipping weight 6 oz.

Each ..... \$1.00

No. 126—Tycos "Certified" Thermometer. Graduations are engraved on the glass tube. Complete with metal stand and certificate. One in a box. Shipping weight 6 oz.

Each ..... \$1.25

## Brooder Thermometers

No. 129—Genuine "Tycos" Thermometer. To be inserted through a hole in the top of the brooder so the bulb is in the actual brooder temperature, and the scale is outside for easy reading. Has mercury filled magnifying glass tube, carefully tested, and white graduations. Total length 7 inches. Packed one in a box. Shipping weight, 6 oz.

Each ..... \$0.75

## Colored Leg Bands

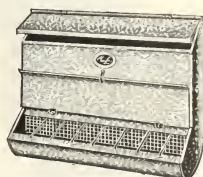
### PRICE LIST

Poultry Sizes			Pigeon and Baby Chick Sizes		
Sizes 91, 92, 93 and 94, Single Coil.	Sizes 391, 392, 393 and 394, Double Coil.		Sizes 95 and 96, Single Coil.	Sizes 395 and 396, Double Coil.	
12 bands.....	Single Coil \$0.15	Double Coil \$0.20	12 bands.....	Single Coil \$0.10	Double Coil \$0.15
25 bands.....	.30	.40	25 bands.....	.20	.25
50 bands.....	.50	.65	50 bands.....	.35	.45
100 bands.....	.75	1.00	100 bands.....	.50	.65
500 bands.....	3.60	4.80	500 bands.....	2.25	3.00
1000 bands.....	7.00	9.00	1000 bands.....	4.00	5.00

## Moe's Dry Mash Hoppers



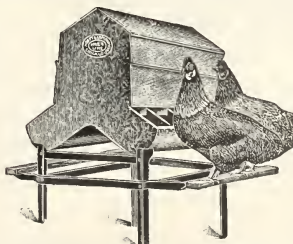
No. 35



No. 37

No.	Height	Width	Capacity	Shipping Weight	Each
35	19 in.	8 1/2 in.	10 Qts.	26 lbs.	\$1.50
36	19 in.	12 in.	14 Qts.	22 lbs.	1.75
13	19 in.	18 in.	22 Qts.	31 lbs.	2.25
37	19 in.	24 in.	32 Qts.	20 lbs.	2.60

## Moe's Mammoth Dry Mash Hopper



A large capacity hopper built on correct principles. Made of heavy galvanized iron, strong and substantial in every detail.

Has many excellent features; for instance it will accommodate a full 100-lb. bag of mash, doing away with the annoyance and waste of having a partly empty bag of mash on the premises. The feed is within easy reach of the chickens, and is protected from the weather and from the ravages of rats and mice.

No. 3—Hopper and stand complete. Price each.....	\$12.00
No. 3-A—Hopper only, without stand. Price each.....	9.25
No. 3-B—Stand only, including wood bars. Price each.....	3.75



# Purina Checker Board Poultry Feeds

**Purina All-Mash Startena.** This mash should be fed to your baby chicks for the first 8 weeks, then followed by Purina Growena until the pullets are ready to lay. All-Mash Startena is the highest quality starting feed obtainable, contains all the ingredients that make a well balanced feed. You will have success with your chicks if you use Purina Startena. Prices: 8½-lb. sacks 50c; 25-lbs. \$1.10; 50-lbs. \$1.90; 100-lbs. \$3.70; ton lots or more \$70.00 per ton.

**Purina Growena.** The growing mash that follows Startena, 8½ lb. sacks 45c; 25-lbs. \$1.00; 50-lbs. \$1.75; 100-lbs. \$3.25; ton lots or more \$62.00 per ton.

**Purina Chick Chow.** Grains for Baby chicks should be fed after the first week in connection with Starting feed. 8½-lbs. 45c; 25-lbs. \$1.00; 50-lbs. \$1.75; 100 lbs. \$3.25.

**Purina Intermediate Chick Chow.** These are a little larger than the Chick feed and are to be fed with the Growing Mash. 25-lbs. 90c; 50-lbs. \$1.65; 100-lbs. \$3.00.

**Purina Hen Chow.** Scratch feed for grown fowls. 25-lbs. 75c; 50-lbs. \$1.40; 100-lbs. \$2.50.

**Purina Lay Chow.** The mash that makes Poultry Pay and Lay. 25-lbs. 75c; 50-lbs. \$1.30; 100-lbs. \$2.50.

## POULTRY FEEDS AND INGREDIENTS FOR MAKING MASH

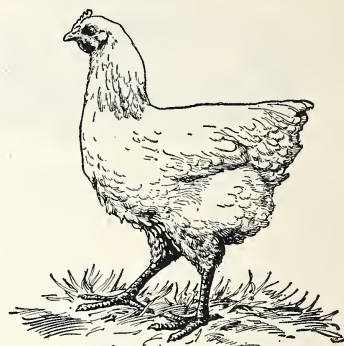
Oyster Shells, fine and medium grades.....	100-lb. sacks	\$1.95
50% Protein Meat Scraps.....	100-lb. sacks	2.50
Fish Meal.....	100-lb. sacks	2.75
Charcoal, fine and medium grades.....	50-lb. sacks	1.75
Buttermilk, dry powdered.....	100-lb. sacks	3.50
Alfalfa Meal.....	100-lb. sacks	2.50
Ground Oats.....	100-lb. sacks	2.25
Oat-Meal.....	100-lb. sacks	4.00

## RABBIT FEEDS

Security Rabbit Feed.....	100-lb. sacks	\$3.00
Purina Rabbit Chow.....	100-lb. sacks	4.00

We carry a full stock of all Rabbit Feeds and supplies.

ALL PRICES ON FEEDS SUBJECT TO CHANGE. Write us for latest current prices.



# Canners' Supplies

## WHAT TO CAN

Many home canners are canning farm meats, sausage, spare ribs, chickens, tomatoes, corn, peas, pumpkins, game, rabbit, fish, salmon, peaches, sorghums, sweet apple cider, oysters, clams, pickle, kraut, spinach, lima beans, succotash, squash, asparagus, and other vegetables, soups, mushrooms, hominy, pork and beans, Spanish dishes, chili-con-carne, plum pudding, fruit juices, syrups, preserves, jams, jellies, peas, apricots, plums, milk, butter, etc. all in

## Prices—Canning Equipment

NATIONAL HOME CAN SEALER..... \$10.00 postpaid

At this new price everyone can afford a can sealer. This one is made by the same people that make the National Pressure Cookers and is the best thing we have seen in the way of canning equipment for the price. We guarantee this Sealer—and if after you have used it for ten days and are not completely satisfied in every way with its performance—we will gladly take it back and refund your money to you. (Seals both Quart and Pint size cans.)

**BURPEE HOME CAN SEALERS.** This is the first Can Sealer for Home purposes put on the market. It is well constructed and has been used for years by thousands of housewives and commercial canners. Complete in every way. Each complete postpaid, \$18.00. (Seals both Quart and Pint size cans.)

TIN CANS.....	Per 100	Per 1000
No. 2 Sanitary Cans (Pint size).....	\$3.25	\$29.00
No. 3 Sanitary Cans (Quart size).....	4.00	39.00

We have No. 2 and No. 3 Cans packed also in cases of 24 each in re-shipping cases, also in cases of 48 each. Write for prices.

No. 2 Extra Tops, per 100.....	\$1.50
No. 2 Extra Tops, per 100.....	1.75

SOLDER TOP CANS.....	Per 100	Per 1000
No. 2 Solder Top Cans.....	\$3.60	\$33.00

No. 3 Solder Top Cans.....	4.80	45.00
Extra Solder Caps.....	1.00	

Solder Wire, 40c per lb.....	Each
Pint Cans.....	\$0.30

10-Quart National Pressure Cooker.....	50
LACQUERED CANS (for canning acidulous fruits).....	Per 100

No. 2 Size.....	\$3.90
No. 3 Size.....	4.95

<b>BURPEE SEALERS FOR SEALING No. 10 (Gal. Cans)</b> .....	\$35.00
No. 10 Complete.....	per 100, \$9.80

Soldering Irons.....	Each \$1.75
No. 2 (Half Pint size).....	15.00

12-Quart National Pressure Cooker.....	17.00
18-Quart National Pressure Cooker.....	20.00

25-Quart National Pressure Cooker.....	25.00
No. 2 (Half Pint size).....	17.50

No. 2 Hotel Size Steel Canning Retort.....	35.00
No. 3 Factory Size Steel Canning Retort.....	75.00

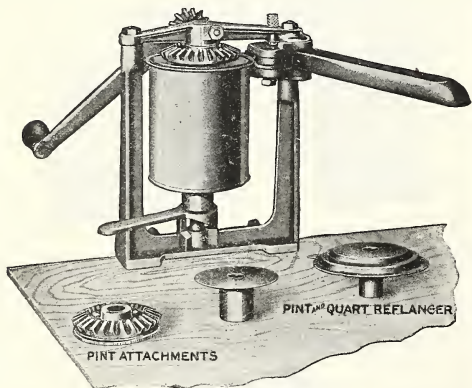
<b>FRICITION TOP CANS FOR SYRUP AND HONEY—</b> .....	Per 100	Per 1000
No. 2 (Half Pint size).....	3.25	30.00

No. 2 (Pint size).....	3.25	30.00
No. 3 (Quart size).....	4.60	43.00

No. 10 (1 Gallon size).....	7.50	72.50
No. 10 (2 Gallon size).....	10.80	96.50

Fruit Jars—Jelly Glasses—Honey Jars—Pickle Jars—Home Brew Bottles—Beer Bottles—Flasks—Milk Bottles—Bottle Caps—Canning Knives—Can Tongs—Apple Corers and Peelers.....	
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IN FACT, EVERYTHING IN CANNING SUPPLIES



## Home Can Sealer

Can Your Meats, Corn, Beans, Tomatoes, Peas

ALL WILL KEEP

Our Big Book on Canning Tells You How—Send for Yours Today

**"Keep Canning and Canning Will Keep You"**

COMPLETE, WITH CAN SAVING ATTACHMENTS

No. 2 (Pint).....	\$15.00
No. 3 (Quart).....	17.00
No. 23 (Pint and Quart).....	18.00
No. 10 (Gallon).....	35.00

It should be every farmers aim to put in a home "cannery." You can right at your own home Fruits, Vegetables, Meats, etc., just as well as the large "canneries," and your products after labeled are just as attractive and as salable as any factory's products. South Carolina products also contain more iodine than any other State in the Union—this feature alone will cause a great demand for products produced in South Carolina. If you wish information on how to label your canned goods in keeping with the "Iodine program in the State of South Carolina," write to Dr. T. I. Weston, Columbia, S. C.

Can South Carolina Vegetables, Meats and Fruits and sell them to Western and Northern markets where goiter is prevalent among the population and of which iodine is the greatest cure and preventive. If you want to know where to sell your goods after they are canned, write us.



# Inoculate

## ALL LEGUMES

Alfalfa, All Clovers, Soy Beans, Cow Peas, Vetch, Peas, Beans, Peanuts  
with

Every Can Stamped  
With Expiration Date  
Fresh Every Year



Every 1 bu. Size Can  
Packed With More Than  
7 Billion Legume Germs

### The Original Legume Inoculator

#### With The Date And Germ Count On Every Can

For profitable results, Agricultural Colleges advise inoculation for all legume seed, because it pays well in producing larger quality yields. NITRAGIN inoculated legumes draw their nitrogen from the air—not the soil—with billions of fresh, nitrogen-gathering germs. NITRAGIN leads in high GERM COUNT.

Is fresh each year—  
it's DATED. Costs  
less than others.



#### NITRAGIN PRICES

Alfalfa, All Clovers, — Peas, Beans

Size	Inoculates	Price	Size	Inoculates	Price
3/4 bu.	15 lbs. seed	\$ .40	1 bu.	60 lbs. seed	\$1.00
3/4 bu.	30 lbs. seed	.60	5 bu.	300 lbs. seed	4.75

#### Special Prices on Soy Beans and Cow Peas

(Note sizes carefully—not packed in smaller sizes)					
1 bu.	60 lbs. seed	\$ .40	5 bu.	300 lbs. seed	\$1.50
2 bu.	120 lbs. seed	.70	10 bu.	600 lbs. seed	2.50

#### GARDEN NITRAGIN

Inoculates from 1 ounce to 8 lbs. seed. Price, \$.25  
IMPORTANT: When ordering NITRAGIN, always be  
sure to state kind of legume seed you wish to inoculate.  
Nitrigin Has Served The American Farmer Since 1898

## Pigeon Supplies

### PIGEON BANDS

Open Aluminum—Doz., 15c; 25, 25c;  
50, 40c; 100, 75c.

Closed Aluminum—In three sizes—  
Doz., 30c; 25, 50c; 50, 90c; 100,  
\$1.50.

Key Ring, Colored Celluloid—Doz.,  
10c; 20, 25c; 50, 35c; 100, 60c.

### KEIPPER'S SANITARY FEED TROUGH

Made with rectangular galvanized  
iron pans for the top and bottom,  
separated by vertical wires around  
the edges which permit the pigeons  
to feed, but not to enter the feeder.  
Positively prevents soiling of feed  
or water, is great for pigeon fan-  
ciers as food left over will not be  
soiled. Easily taken apart for clean-  
ing.

18 inch size.....\$1.15  
24 inch size.....1.50

### NAPPIES

	Each	Doz.
Earthen 9"	\$0.15	\$1.50
Earthen 10"	.18	1.80
Fibrotta Nappies.....	.15	1.50

### RACING PIGEON BOBS

Aluminum bobs and rod, 30c per  
bob. Bob frames complete with rods  
and electric signal switch, on order.

UBICO PIGEON FEED with Corn.  
100 lbs. \$4.65.

UBICO PIGEON FEED without Corn.  
100 lbs. \$4.50.

PALMETTO HEALTH GRIT—Per  
100 lbs. \$3.75.

We also carry Canada Field Peas,  
Hemp, Buckwheat and all other kinds  
of grain for both Homing and Rac-  
ing Pigeons. Write for prices.

## Acme All Round Spray

### NEW 3-WAY SPRAY



Save your roses, plants,  
vegetables, shrubs and trees  
from the ravages of chewing  
insects, sucking insects, blight  
and fungi.

All Round Spray requires  
no technical knowledge or  
skill in using. The spraying  
guide attached to every pack-  
age gives assurance of sure  
and safe garden protection.

1/4 lb. tins.....each 45c  
1 lb. tins.....each 95c

## SEMESAN—SEMESAN JR. SEMESAN BEL

### The Premier Seed Disinfectant

- Control Diseases —Increase Yields
- Hasten Germination —Improve Quality

SEMESAN. This modern disinfectant can be applied in  
either the liquid or convenient dust form to prevent or  
control effectively a most diversified variety of diseases  
and fungous growths borne by seeds, bulbs, corms, roots,  
tubers, plants, grafts and soils. Semesan is harmless to  
seed and plant life but extremely poisonous to disease  
and parasitic organisms.

SEMESAN JR. A less expensive but equally effective form  
of Semesan for the dry dust disinfection of both field  
and sweet corn seeds against the ear, root and stalk rots.

SEMESAN BEL. Applied to whole or cut seed potatoes,  
either as a dry powder or a whitewash-like water mix-  
ture, Semesan Bel has caused in many cases better disease control and greater  
yields of disease-free potatoes than any other treatment known.

CERESAN. For seed treatment of small grasses. 8 oz. 50c; 5 lbs. \$3.00.

Prices for Du Pont Semesan		Semesan Jr. and Semesan Bel	
2 ozs.....	\$0.50	5 lbs.....	\$13.00
8 ozs.....	1.60	25 lbs.....	\$31.25
1 lb.....	2.75	100 lbs.....	120.00
		5 lbs.....	8.00

Semesan Disinfectants Make Good Seeds Grow Better—Free Booklet



## ACME SPRAYING GUIDE

When and What to Spray

Write for this Fine Guide Free

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

ZIP \_\_\_\_\_



# Kirkland's Baby Chicks are all *Blood-tested*

Our Hatcheries turn out Baby Chicks every week by the thousands. We can give you Baby Chicks or Ducklings any day in the week that you may want them.

**Price List Effective February 1, 1932**

*We Pay the Postage; these are  
Delivered Prices*



**This Little Fellow Is the Profit-Making Kind—He Got the Right Start**

BREEDS	Less Than 50 Chicks	More Than 50 Up to 200	In Lots of 200 or More
S. C. Rhode Island Reds.....	12c each	10c each	9c each
Barred Rocks .....	12c each	10c each	9c each
Buff Rocks .....	14c each	12c each	11c each
Buff Orpingtons .....	14c each	12c each	11c each
White Orpingtons .....	15c each	13c each	12c each
White Rocks .....	11c each	10c each	9c each
White Leghorns (Barron).....	11c each	10c each	9c each
White Leghorns (Tancred).....	11c each	10c each	9c each
White Leghorns (Utility).....	10c each	9c each	8c each
Heavy Mixed Chicks .....	11c each	10c each	9c each
Brown Leghorns .....	15c each	14c each	13c each
Silver Laced Wyandottes .....	14c each	12c each	11c each
White Wyandottes .....			
Jersey Black Giants.....			
DUCKLINGS			
White Pekins .....	12c each	11c each	10c each
Indian Runners .....	28c each	25c each	23c each
BABY TURKEYS—Poults 75c each—About five breeds. ....	25c each	23c each	22c each

**LIVE DELIVERY**—We guarantee 100% live delivery.

**TERMS**—We require 25% cash to accompany your order and the balance shipped C. O. D. Or if you wish you may send the entire remittance with order. If we cannot make shipment when you order them we will not hold your order and money, but will advise you.

**FUTURE ORDERS**—Please remember that if you wish to have chicks on time it is best to book them for a few weeks ahead, and in this way you are assured of prompt delivery and careful handling of your order. We will have chicks and ducklings all of the year round and can supply them any month.

**BROODERS**—Be sure to have a good brooder on hand. Nothing could be better than to have a BUCKEYE. You will find them listed in this catalog and we can ship them with your chicks or, better still, it will be better to have your brooder come a few days ahead.

**ORDER PURINA ALL-MASH CHICK STARTER** with your chicks. This starter feed will raise you the greatest percentage of your chicks.

**We  
Guarantee  
100%  
Live  
Delivery**

# Insecticides and Fungicides

No article on this page can be mailed except those quoted "postpaid"



**Lime-Sulphur Solution.** For fall and spring spraying use one gallon concentrated lime-sulphur solution to 8 gallons of water. For summer spraying 1½ gallons to 50 gallons water, to which add 2 lbs. of either dry powdered arsenate of lead or arsenate of calcium, or ½ to 1 lb. Paris green. Qt. 40c; 2 qts. 65c; gallon, \$1; 5 gals. \$3.50; 10 gals. \$6; barrel \$17.

**Dry Lime-Sulphur.** Exactly like lime-sulphur except that the water has been taken out. No freight to pay on water, no leakage, never freezes. For fall and spring spraying, use 12 to 15 lbs. to 50 gallons water. Summer spray add 2 lbs. of either arsenate of lead or arsenate of calcium or ½ lb. to 1 lb. Paris green to make a combined insecticide and fungicide. By mail postpaid, 1 lb. 40c; 5 lbs. \$1.50; 10 lbs. \$2.50. Not prepaid, 1 lb. 30c; 5 lbs. \$1.30; 10 lbs. \$2.00; 25 lbs. \$4.50; 50 lbs. \$8.50; 100 lbs. \$15.00.

**Bordeaux Mixture.** This mixture not only prevents blight, scab, rust, mildew, black rot, and other fungous diseases of plants and fruits, but improves the quality and largely increases the yield. It should be used on all vine-crops, grapes, cucumbers, melons, tomatoes, etc. Potatoes especially respond generously to thorough spraying. To make a combined fungicide and insecticide, add a pound of Paris green, or two pounds of either arsenate of lead or arsenate of calcium to 150 gallons of the diluted mixture. It may be applied dry or in water; 1 lb. to 8 gals. By mail, postpaid, 1 lb. 45c; 5 lbs. \$1.75. Not prepaid, 1 lb. 35c; 5 lbs. \$1.50; 25 lbs. \$6.50.



**Slug Shot.** Destroys insects and worms on garden and house plants, potatoes, cabbage, shrubs, trees, vegetables and fruits, and kills lice on poultry. Does not poison, and will not injure the foliage. May be applied dry or in water. By mail, postpaid, 1 lb. after top pkg. 30c; 5 lb. pkg. 75c. Not prepaid, 1 lb. 20c; 5 lb. pkg. 55c; 50 lbs. \$5.00; 100 lbs. \$9.50. Small dustlers for applying, 12c; by mail, 18c. Large dustlers 75c; by mail 95c.

**Black Leaf 40.** —For Sucking Insects. Kills plant lice on roses, solution of nicotine sulphate, guaranteed to contain not less than 40 per cent of nicotine. A solution in the proportion of a teaspoonful to a gallon of water, to which add 4 lbs soap to each 100 gallons of solution, will kill the garden pea louse and not injure the vine. Mix with 800 times its bulk of water, 1 oz. bottle 35c; ½ lb. \$1.25; 2 lbs. \$3.50; 10 lb. pkg. \$13.50. Cannot be mailed.

**Pyrox.** The best and safest all-round spray for all insects, blights and fungous troubles. Kills potato bugs. Sticks like paint. Lb. 45c; 5 lbs. \$1.90; 10 lbs. \$3.25; 25 lbs. \$7.50; 50 lbs. \$11.75; 100 lbs. \$21.50.

**Cooper Sulphate Dust.** Highly used for the same purposes as in dry form instead of liquid. Recommended highly for watermelons, cucumbers, and cantaloupes in controlling anthracnose and other fungous diseases. Price, 10 to 25 lbs. at 15c lb.; 100 lbs. at \$12.50.

**Bluestone.** (Copper Sulphate). For smut in wheat and other grains. Price, 1 lb. 20c; 5 lbs. at 15c; 10 lbs. at 14c per pound.

**Contagion Rat Death.** A culture fed on bread which gives contagious fatal skin disease to the rat which he communicates to the whole tribe. Dead rats are odorless. Price, postpaid, 50c.

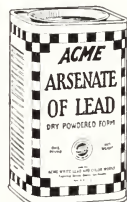
**Comfort Bed Bug Exterminator.** Non-poisonous. Pleasant smell to fabrics. Spray bed and mattress. Price, pt. 50c; qt. 75c; gal. \$1.75.

**Cooper's Cattle Dip.** Texas fever, ticks, etc., can be absolutely eradicated by the use of this. Has the official recognition of the U. S. Department of Agriculture. Price, qt. \$1.25; ½ gal. \$1.75; gal. \$3.00.

**Bug Death.** Kills potato, squash and cucumber bugs, tomato, currant and gooseberry worms, and all pests that eat the vines and plants. May be applied dry, in water or in Bordeaux Mixture. Contains neither Paris green, arsenic, nor strychnine that might burn the foliage. By mail, postpaid, 1 lb. 30c; 3 lb. pkg. 65c; 5 lb. pkg. 90c. Not prepaid, 1 lb. 20c; 3 lb. pkg. 40c; 5 lb. pkg. 60c. Use 12½ to 25 pounds per application to the acre. Write for circulars.

**Kerosene Emulsion.** (For Sucking Insects.) A safe and sure remedy for squash bugs, plant and bark-lice, San Jose scale, caterpillars, rose-bugs, green-fly, melon and pea louse, and all sucking insects. Ours is a perfect emulsion and will not separate. It is in concentrated form—add 25 to 30 gallons of water to one gallon of emulsion and it is ready to use. Spray before the blossom buds open and again after the blossoms fall. The second spraying should have Paris green mixed with it to kill leaf-lice, aphides and insects. Not prepaid, qt. 50c; 2 qts. 75c; gallon \$1.25; 5 gals. \$5.00.

**Arsenate of Lead.** (For Leaf-Eating Insects.) Sticks to the leaf better than Paris green and remains longer in suspension; requires fewer applications; does not burn the leaf, thus allowing stronger solutions. White in color and shows just where it has been applied. These advantages make it preferable to Paris green for destroying leaf-eating insects. Use 1 to 2 lbs. to 50 gals. of water for general spraying. Because the paste form is harder to handle, requires double the strength, does not keep well, and is 50 per cent water, we handle only the Dry Powdered form, which has proved in every way far superior and more economical. Not prepaid, ½ lb. 30c; 1 lb. 50c; 5 lb. pkg. \$2.25. Cannot be mailed.



**Fish Oil Soap.** (Sometimes called Whale Oil Soap.) Effectually destroys the mealy bug and nearly all lice on indoor plants and scale on palms. Recommended for San Jose scale and insects that infest the bark of trees. It has been used with good results against the pea louse. By mail, postpaid, 1 lb. 35c; 5 lbs. \$1.25; Not prepaid, 1 lb. 25c; 5 lbs. \$1.00.

**Arsenate of Calcium.** (or Arsenate of Lime—For Leaf-Eating Insects.) An effective insecticide for potatoes, cotton, tobacco, garden vegetables, seed fruits, such as apple, pear, etc. Does not burn the foliage, sticks well to the leaf and being white shows where the poison has been applied. Do not use it for stone fruits like peach, plum, etc. Not prepaid, 5 lbs. \$1.75. Cannot be mailed. Write for prices.

**Stimuplant.** A highly concentrated, odorless fertilizer for the vegetable and flower garden, shrubs and house plants. The analysis is guaranteed 11 per cent nitrogen; 12 per cent phosphoric acid; 15 per cent potash. A small amount of each plant food to insure a quick and strong growth of all plants, earlier maturity of garden vegetables, and a generous supply of blooms from flowering plants. 10-tablet pkg. 15c; 20-tablet pkg. 25c; 100-tablet pkg. 75c; 1,000-tablet pkg. \$3.50, postpaid.

**Stimuplant**  
Makes a  
Wonder Garden

**Cooper's Fluid.** For hog lice, mange, ringworm, eczema, etc. Price, qt. \$1.00; ½ gal. \$1.50; gal. \$2.50.

**Formalin.** (Formaldehyde.) For smut in wheat and other grains. Price, pint 50c; 1 quart 90c.

**Para-Dichlorobenzene, or Paracide.** A most effective remedy for the eradication of peach tree borers and weevils, etc. Price, 1 lb. 50c; 5 lbs. \$2.00.

**Paris Green.** An old poison for all classes of leaf-eating insects. Contains 55 per cent of Arsenate of Lead. Will burn tender foliage. 1 pound to 50 gallons water. Price, ¼ lb. 20c; ½ lb. 35c; 1 lb. 60c; 5 to 10 lbs. 50c; 25 to 50 lbs. 40c per pound.

**Hall's Free Nicotine Solution.** 40 per cent, for general insect spraying and fumigating. ½ lb. \$1.50; 2 lbs. \$4.50; 8 lbs. \$15.00.

**Melrosene.** A most effective remedy for killing full-grown rose bugs. Will not discolor flowers. Dilute 1 part to 20 parts of water. Trial size, 50c; 1 pt. \$1.00; 1 qt. \$1.75; ½ gal. \$3.25; 1 gal. \$6.00.

**Tobacco Dust.** Fine, for dusting or extra fine for fumigating. 1 lb. 15c; 5 lbs. 50c; 25 lbs. \$2.00; 100 lbs. \$6.00.

**Tree Tanglefoot.** A paste preparation painted around the trunk of a tree to keep caterpillars, etc., from crawling into the tree. 1 lb. 55c; 5 lbs. \$2.50; 10 lbs. \$4.50.

**Sulphur.** Powdered. For mildew. 1 lb. 15c; 5 lbs. 60c; 10 lbs. \$1.00; 100 lbs. \$7.00.

**Scalecide.** A spray for scale. Dilute 1 gal. to 15 gals. of water. 1 qt. 60c; 1 gal. \$1.50; 5 gals. \$6.25; 10 gals. \$11.00; 15 gal. drum \$14.25.

**Wilson's O. K. Plant Spray.** A powerful yet harmless and efficient insecticide. ½ pint 40c; 1 qt. \$1.00; 1 gal. \$3.00; 5 gals. \$10.00.





## Kirkland's Flowers and Bulbs Always Bloom

Plant a FLOWER GARDEN and  
Have Cut Flowers All Summer

# B. B. KIRKLAND SEED CO.

Columbia, South Carolina

